

SAFETY DATA SHEET

SureSelect XT2 Reagent Kit - ILM - 480 Reactions

Section 1. Identification

Product identifier	: SureSelect XT2 Reagent Kit - ILM - 480 Reactions
Part no. (chemical kit)	: G9661C, G9662C
Part no.	: SureSelect End Repair Enzyme Mix 5190-7860 SureSelect End Repair Nucleotide Mix 5190-7861 SureSelect dA-Tailing Master Mix 5190-3806 SureSelect Ligation Master Mix 5190-3807 SureSelect Herculase II Master Mix 5190-3808 XT2 Primer Mix 5190-3809 SureSelect Pre-capture Indexed Adaptors A01-H12 5190-7945 SureSelect XT2 Binding Buffer 5190-4091 SureSelect XT2 Wash 1 5190-4092 SureSelect XT2 Wash 2 5190-4093 SureSelect RNase Block 5190-4386 SureSelect XT2 Hybridization Buffer 5190-4086 / 5190-4466 SureSelect XT2 Blocking Mix 5190-4087 / 5190-4467

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

Material uses	: Analytical reagent.
	SureSelect End Repair Enzyme Mix 5 x 6.2 ml (96 reactions) SureSelect End Repair Nucleotide Mix 5 x 1.6 ml (96 reactions) SureSelect dA-Tailing Master Mix 5 x 2.86 ml (96 reactions) SureSelect Ligation Master Mix 5 x 0.8 ml (96 reactions) SureSelect Herculase II Master Mix 5 x 0.8 ml (96 reactions) XT2 Primer Mix 5 x 0.32 ml (96 reactions) SureSelect Pre-capture Indexed Adaptors A01-H12 480 x 0.015 ml SureSelect XT2 Binding Buffer 48 ml SureSelect XT2 Wash 1 12 ml SureSelect XT2 Wash 2 72 ml SureSelect RNase Block 0.096 ml SureSelect XT2 Hybridization Buffer 2.22 ml - 3.3 ml SureSelect XT2 Blocking Mix 0.54 ml - 1.08 ml

Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402
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Emergency telephone number (with hours of operation)	: CHEMTREC®: +(61)-290372994
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Section 2. Hazard(s) identification

Classification of the substance or mixture

SureSelect XT2

Hybridization Buffer

H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Section 2. Hazard(s) identification

SureSelect End Repair Enzyme Mix	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: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
SureSelect dA-Tailing Master Mix	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: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
SureSelect Ligation Master Mix	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 Herculase II Master Mix	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%
SureSelect XT2 Binding Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
SureSelect RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
SureSelect XT2 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: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
SureSelect End Repair Enzyme Mix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2%
SureSelect dA-Tailing Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%
SureSelect Ligation Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%
SureSelect XT2 Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.4%

GHS label elements

Hazard pictograms

: SureSelect XT2 Hybridization Buffer



Signal word

: SureSelect End Repair Enzyme Mix No signal word.
 SureSelect End Repair Nucleotide Mix No signal word.
 SureSelect dA-Tailing Master Mix No signal word.
 SureSelect Ligation Master Mix No signal word.
 SureSelect Herculase II Master Mix No signal word.
 XT2 Primer Mix No signal word.
 SureSelect Pre-capture Indexed Adaptor Set A01-H12 No signal word.
 SureSelect XT2 Binding Buffer No signal word.
 SureSelect XT2 Wash 1 No signal word.
 SureSelect XT2 Wash 2 No signal word.

Section 2. Hazard(s) identification

	SureSelect RNase Block	No signal word.
	SureSelect XT2	WARNING
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	No signal word.
Hazard statements	: SureSelect End Repair	No known significant effects or critical hazards.
	Enzyme Mix	
	SureSelect End Repair	No known significant effects or critical hazards.
	Nucleotide Mix	
	SureSelect dA-Tailing	No known significant effects or critical hazards.
	Master Mix	
	SureSelect Ligation Master	No known significant effects or critical hazards.
	Mix	
	SureSelect Herculase II	No known significant effects or critical hazards.
	Master Mix	
	XT2 Primer Mix	No known significant effects or critical hazards.
	SureSelect Pre-capture	No known significant effects or critical hazards.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	No known significant effects or critical hazards.
	Buffer	
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect XT2	H319 - Causes serious eye irritation.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.

Precautionary statements

Prevention

	: SureSelect End Repair	Not applicable.
	Enzyme Mix	
	SureSelect End Repair	Not applicable.
	Nucleotide Mix	
	SureSelect dA-Tailing	Not applicable.
	Master Mix	
	SureSelect Ligation Master	Not applicable.
	Mix	
	SureSelect Herculase II	Not applicable.
	Master Mix	
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture	Not applicable.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	Not applicable.
	Buffer	
	SureSelect XT2 Wash 1	Not applicable.
	SureSelect XT2 Wash 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect XT2	P280 - Wear eye or face protection.
	Hybridization Buffer	

Response

	: SureSelect XT2 Blocking Mix	Not applicable.
	SureSelect End Repair	Not applicable.
	Enzyme Mix	
	SureSelect End Repair	Not applicable.
	Nucleotide Mix	
	SureSelect dA-Tailing	Not applicable.
	Master Mix	
	SureSelect Ligation Master	Not applicable.
	Mix	
	SureSelect Herculase II	Not applicable.
	Master Mix	
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture	Not applicable.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	Not applicable.

Section 2. Hazard(s) identification

	Buffer	
	SureSelect XT2 Wash 1	Not applicable.
	SureSelect XT2 Wash 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect XT2	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Hybridization Buffer	P337 + P313 - If eye irritation persists: Get medical attention.
	SureSelect XT2 Blocking Mix	Not applicable.
Storage	: SureSelect End Repair Enzyme Mix	Not applicable.
	SureSelect End Repair Nucleotide Mix	Not applicable.
	SureSelect dA-Tailing Master Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	SureSelect Herculase II Master Mix	Not applicable.
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
	SureSelect XT2 Binding Buffer	Not applicable.
	SureSelect XT2 Wash 1	Not applicable.
	SureSelect XT2 Wash 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect XT2	Not applicable.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not applicable.
Disposal	: SureSelect End Repair Enzyme Mix	Not applicable.
	SureSelect End Repair Nucleotide Mix	Not applicable.
	SureSelect dA-Tailing Master Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	SureSelect Herculase II Master Mix	Not applicable.
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
	SureSelect XT2 Binding Buffer	Not applicable.
	SureSelect XT2 Wash 1	Not applicable.
	SureSelect XT2 Wash 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect XT2	Not applicable.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not applicable.
Supplemental label elements		
Additional warning phrases	: SureSelect End Repair Enzyme Mix	Not applicable.
	SureSelect End Repair Nucleotide Mix	Not applicable.
	SureSelect dA-Tailing Master Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	SureSelect Herculase II	Not applicable.

Section 2. Hazard(s) identification

Master Mix	
XT2 Primer Mix	Not applicable.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
SureSelect XT2 Binding Buffer	Not applicable.
SureSelect XT2 Wash 1	Not applicable.
SureSelect XT2 Wash 2	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect XT2 Hybridization Buffer	Not applicable.
SureSelect XT2 Blocking Mix	Not applicable.

Other hazards which do not result in classification	SureSelect End Repair Enzyme Mix	None known.
	SureSelect End Repair Nucleotide Mix	None known.
	SureSelect dA-Tailing Master Mix	None known.
	SureSelect Ligation Master Mix	None known.
	SureSelect Herculase II Master Mix	None known.
	XT2 Primer Mix	None known.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	None known.
	SureSelect XT2 Binding Buffer	None known.
	SureSelect XT2 Wash 1	None known.
	SureSelect XT2 Wash 2	None known.
	SureSelect RNase Block	None known.
	SureSelect XT2 Hybridization Buffer	None known.
	SureSelect XT2 Blocking Mix	None known.

Section 3. Composition and ingredient information

Substance/mixture	SureSelect End Repair Enzyme Mix	Mixture
	SureSelect End Repair Nucleotide Mix	Mixture
	SureSelect dA-Tailing Master Mix	Mixture
	SureSelect Ligation Master Mix	Mixture
	SureSelect Herculase II Master Mix	Mixture
	XT2 Primer Mix	Mixture
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Mixture
	SureSelect XT2 Binding Buffer	Mixture
	SureSelect XT2 Wash 1	Mixture
	SureSelect XT2 Wash 2	Mixture
	SureSelect RNase Block	Mixture
	SureSelect XT2 Hybridization Buffer	Mixture
	SureSelect XT2 Blocking Mix	Mixture

CAS number/other identifiers

Section 3. Composition and ingredient information

Ingredient name	% (w/w)	CAS number
SureSelect End Repair Enzyme Mix Glycerol	≥10 - ≤30	56-81-5
SureSelect dA-Tailing Master Mix Glycerol Polyethylene glycol	≥10 - ≤30 ≥10 - ≤30	56-81-5 25322-68-3
SureSelect Ligation Master Mix Glycerol Polyethylene glycol	≥30 - ≤60 ≥10 - ≤30	56-81-5 25322-68-3
SureSelect RNase Block Glycerol	≥30 - ≤60	56-81-5
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	<3	151-21-3

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: SureSelect End Repair 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.
	SureSelect End Repair Nucleotide 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 dA-Tailing Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Ligation Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Herculase II Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	XT2 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 Pre-capture Indexed Adaptor Set A01-H12	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 XT2 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 XT2 Wash 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 XT2 Wash 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Section 4. First aid measures

	SureSelect RNase Block	Check for and remove any contact lenses. Get medical attention if irritation occurs. 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 XT2 Hybridization Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	SureSelect XT2 Blocking Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: SureSelect End Repair Enzyme 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.
	SureSelect End Repair Nucleotide Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect dA-Tailing Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect Ligation Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect Herculase II Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	XT2 Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT2 Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT2 Hybridization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.

Section 4. First aid measures

Skin contact

		Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	SureSelect XT2 Blocking Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect End Repair Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect End Repair Nucleotide Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect dA-Tailing Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Ligation Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Herculase II Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	XT2 Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT2 Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 2	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 XT2 Hybridization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SureSelect XT2 Blocking Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

	SureSelect End Repair 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.
	SureSelect End Repair Nucleotide 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 dA-Tailing Master 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

Section 4. First aid measures

SureSelect Ligation Master Mix	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.
SureSelect Herculase II Master 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.
XT2 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 Pre-capture Indexed Adaptor Set A01-H12	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 XT2 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 XT2 Wash 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 XT2 Wash 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.
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 XT2 Hybridization Buffer	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit

Section 4. First aid measures

does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SureSelect XT2 Blocking 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.	
	SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.	
	SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.	
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.	
	SureSelect Herculase II Master Mix	No known significant effects or critical hazards.	
	XT2 Primer Mix	No known significant effects or critical hazards.	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.	
	SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.	
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.	
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.	
	SureSelect RNase Block	No known significant effects or critical hazards.	
	SureSelect XT2 Hybridization Buffer	Causes serious eye irritation.	
	SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.	
	Inhalation	: SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
		SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
		SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
SureSelect Ligation Master Mix		No known significant effects or critical hazards.	
SureSelect Herculase II Master Mix		No known significant effects or critical hazards.	
XT2 Primer Mix		No known significant effects or critical hazards.	
SureSelect Pre-capture Indexed Adaptor Set A01-H12		No known significant effects or critical hazards.	
SureSelect XT2 Binding Buffer		No known significant effects or critical hazards.	
SureSelect XT2 Wash 1		No known significant effects or critical hazards.	
SureSelect XT2 Wash 2		No known significant effects or critical hazards.	
SureSelect RNase Block		No known significant effects or critical hazards.	
SureSelect XT2 Hybridization Buffer		No known significant effects or critical hazards.	
SureSelect XT2 Blocking Mix		No known significant effects or critical hazards.	

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Skin contact	:	SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.	
		SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.	
		SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.	
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.	
		SureSelect Herculase II Master Mix	No known significant effects or critical hazards.	
		XT2 Primer Mix	No known significant effects or critical hazards.	
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.	
		SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.	
		SureSelect XT2 Wash 1	No known significant effects or critical hazards.	
		SureSelect XT2 Wash 2	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect XT2 Hybridization Buffer	No known significant effects or critical hazards.	
		SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.	
	Ingestion	:	SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
			SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
			SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
			SureSelect Ligation Master Mix	No known significant effects or critical hazards.
			SureSelect Herculase II Master Mix	No known significant effects or critical hazards.
			XT2 Primer Mix	No known significant effects or critical hazards.
			SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
		SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.	
		SureSelect XT2 Wash 1	No known significant effects or critical hazards.	
		SureSelect XT2 Wash 2	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect XT2 Hybridization Buffer	No known significant effects or critical hazards.	
		SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.	

Over-exposure signs/symptoms

Eye contact	:	SureSelect End Repair Enzyme Mix	No specific data.
		SureSelect End Repair Nucleotide Mix	No specific data.
		SureSelect dA-Tailing Master Mix	No specific data.
		SureSelect Ligation Master Mix	No specific data.
		SureSelect Herculase II Master Mix	No specific data.
		XT2 Primer Mix	No specific data.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.
		SureSelect XT2 Binding Buffer	No specific data.
		SureSelect XT2 Wash 1	No specific data.
		SureSelect XT2 Wash 2	No specific data.
		SureSelect RNase Block	No specific data.

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	SureSelect XT2 Hybridization Buffer	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	SureSelect XT2 Blocking Mix	No specific data.	
	: SureSelect End Repair Enzyme Mix	No specific data.	
	SureSelect End Repair Nucleotide Mix	No specific data.	
	SureSelect dA-Tailing Master Mix	No specific data.	
	SureSelect Ligation Master Mix	No specific data.	
	SureSelect Herculase II Master Mix	No specific data.	
	XT2 Primer Mix	No specific data.	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.	
	SureSelect XT2 Binding Buffer	No specific data.	
	SureSelect XT2 Wash 1	No specific data.	
	SureSelect XT2 Wash 2	No specific data.	
	SureSelect RNase Block	No specific data.	
	SureSelect XT2 Hybridization Buffer	No specific data.	
	SureSelect XT2 Blocking Mix	No specific data.	
	Skin contact	: SureSelect End Repair Enzyme Mix	No specific data.
		SureSelect End Repair Nucleotide Mix	No specific data.
		SureSelect dA-Tailing Master Mix	No specific data.
		SureSelect Ligation Master Mix	No specific data.
		SureSelect Herculase II Master Mix	No specific data.
		XT2 Primer Mix	No specific data.
SureSelect Pre-capture Indexed Adaptor Set A01-H12		No specific data.	
SureSelect XT2 Binding Buffer		No specific data.	
SureSelect XT2 Wash 1		No specific data.	
SureSelect XT2 Wash 2		No specific data.	
SureSelect RNase Block		No specific data.	
SureSelect XT2 Hybridization Buffer		No specific data.	
SureSelect XT2 Blocking Mix		No specific data.	
Ingestion		: SureSelect End Repair Enzyme Mix	No specific data.
		SureSelect End Repair Nucleotide Mix	No specific data.
		SureSelect dA-Tailing Master Mix	No specific data.
		SureSelect Ligation Master Mix	No specific data.
		SureSelect Herculase II Master Mix	No specific data.
		XT2 Primer Mix	No specific data.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.

Section 4. First aid measures

SureSelect XT2 Binding Buffer	No specific data.
SureSelect XT2 Wash 1	No specific data.
SureSelect XT2 Wash 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect XT2 Hybridization Buffer	No specific data.
SureSelect XT2 Blocking Mix	No specific data.

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

Notes to physician	:	SureSelect End Repair Enzyme Mix	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		SureSelect End Repair Nucleotide Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect dA-Tailing Master Mix	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		SureSelect Ligation Master Mix	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		SureSelect Herculase II Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		XT2 Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect XT2 Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect XT2 Wash 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect XT2 Wash 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect XT2 Hybridization Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect XT2 Blocking Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	SureSelect End Repair Enzyme Mix	No specific treatment.
		SureSelect End Repair Nucleotide Mix	No specific treatment.
		SureSelect dA-Tailing Master Mix	No specific treatment.
		SureSelect Ligation Master Mix	No specific treatment.
		SureSelect Herculase II Master Mix	No specific treatment.
		XT2 Primer Mix	No specific treatment.
		SureSelect Pre-capture	No specific treatment.

Section 4. First aid measures

	Indexed Adaptor Set A01-H12	
	SureSelect XT2 Binding Buffer	No specific treatment.
	SureSelect XT2 Wash 1	No specific treatment.
	SureSelect XT2 Wash 2	No specific treatment.
	SureSelect RNase Block	No specific treatment.
	SureSelect XT2 Hybridization Buffer	No specific treatment.
	SureSelect XT2 Blocking Mix	No specific treatment.
Protection of first-aiders	: SureSelect End Repair Enzyme Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect End Repair Nucleotide Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect dA-Tailing Master Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Ligation Master Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Herculase II Master Mix	No action shall be taken involving any personal risk or without suitable training.
	XT2 Primer Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Wash 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Wash 2	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 XT2 Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SureSelect XT2 Blocking Mix	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: SureSelect End Repair Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect End Repair Nucleotide Mix	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect dA-Tailing Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Ligation Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Herculase II Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	XT2 Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect XT2 Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect XT2 Wash 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect XT2 Wash 2	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Firefighting measures

	SureSelect RNase Block	surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
	SureSelect XT2 Hybridization Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect XT2 Blocking Mix	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: SureSelect End Repair Enzyme Mix	None known.
	SureSelect End Repair Nucleotide Mix	None known.
	SureSelect dA-Tailing Master Mix	None known.
	SureSelect Ligation Master Mix	None known.
	SureSelect Herculase II Master Mix	None known.
	XT2 Primer Mix	None known.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	None known.
	SureSelect XT2 Binding Buffer	None known.
	SureSelect XT2 Wash 1	None known.
	SureSelect XT2 Wash 2	None known.
	SureSelect RNase Block	None known.
	SureSelect XT2 Hybridization Buffer	None known.
	SureSelect XT2 Blocking Mix	None known.
Specific hazards arising from the chemical	: SureSelect End Repair Enzyme Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect End Repair Nucleotide Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect dA-Tailing Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Ligation Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Herculase II Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	XT2 Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Wash 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Wash 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Hybridization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Blocking Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: SureSelect End Repair Enzyme Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	SureSelect End Repair Nucleotide Mix	No specific data.

Section 5. Firefighting measures

SureSelect dA-Tailing Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
SureSelect Ligation Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
SureSelect Herculase II Master Mix	Decomposition products may include the following materials: sulfur oxides metal oxide/oxides
XT2 Primer Mix SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data. No specific data.
SureSelect XT2 Binding Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect RNase Block	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide
SureSelect XT2 Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
SureSelect XT2 Blocking Mix	No specific data.

Special protective actions for fire-fighters

SureSelect End Repair 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.
SureSelect End Repair Nucleotide 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 dA-Tailing Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Ligation Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Herculase II Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
XT2 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 Pre-capture	Promptly isolate the scene by removing all persons

Section 5. Firefighting measures

Indexed Adaptor Set A01-H12	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 XT2 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 XT2 Wash 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 XT2 Wash 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 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 XT2 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 XT2 Blocking 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.
Special protective equipment for fire-fighters : SureSelect End Repair 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.
SureSelect End Repair Nucleotide Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect dA-Tailing Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Ligation Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Herculase II Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
XT2 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.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect XT2 Binding Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect XT2 Wash 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect XT2 Wash 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

Section 5. Firefighting measures

SureSelect RNase Block	(SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect XT2 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.
SureSelect XT2 Blocking Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: SureSelect End Repair 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.
	SureSelect End Repair Nucleotide Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect dA-Tailing Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Ligation Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Herculase II Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	XT2 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 spilt material. Put on appropriate personal protective equipment.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	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 XT2 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.

Section 6. Accidental release measures

SureSelect XT2 Wash 1	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 XT2 Wash 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 spilt 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 spilt material. Put on appropriate personal protective equipment.
SureSelect XT2 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
SureSelect XT2 Blocking 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.
For emergency responders : SureSelect End Repair 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".
SureSelect End Repair Nucleotide 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 dA-Tailing Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Ligation Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Herculase II Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
XT2 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 Pre-capture Indexed Adaptor Set A01-H12	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 XT2 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 XT2 Wash 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on

Section 6. Accidental release measures

SureSelect XT2 Wash 2	suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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 XT2 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 XT2 Blocking 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".

Environmental precautions	: SureSelect End Repair 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).
	SureSelect End Repair Nucleotide 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 dA-Tailing Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureSelect Ligation Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureSelect Herculase II Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	XT2 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 Pre-capture Indexed Adaptor Set A01-H12	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 XT2 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 XT2 Wash 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 XT2 Wash 2	Avoid dispersal of spilt material and runoff and

Section 6. Accidental release measures

	contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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 XT2 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 XT2 Blocking Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up	:	SureSelect End Repair 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.
		SureSelect End Repair Nucleotide 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 dA-Tailing Master Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		SureSelect Ligation Master Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		SureSelect Herculase II Master Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		XT2 Primer 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 Pre-capture Indexed Adaptor Set A01-H12	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 XT2 Binding Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Section 6. Accidental release measures

	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 XT2 Wash 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 XT2 Wash 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 RNase Block	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect XT2 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 XT2 Blocking Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	SureSelect End Repair Enzyme Mix	Put on appropriate personal protective equipment (see Section 8).
		SureSelect End Repair Nucleotide Mix	Put on appropriate personal protective equipment (see Section 8).
		SureSelect dA-Tailing Master Mix	Put on appropriate personal protective equipment (see Section 8).
		SureSelect Ligation Master Mix	Put on appropriate personal protective equipment (see Section 8).
		SureSelect Herculase II Master Mix	Put on appropriate personal protective equipment (see Section 8).
		XT2 Primer Mix	Put on appropriate personal protective equipment (see Section 8).
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Put on appropriate personal protective equipment (see Section 8).
		SureSelect XT2 Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
		SureSelect XT2 Wash 1	Put on appropriate personal protective equipment (see Section 8).
		SureSelect XT2 Wash 2	Put on appropriate personal protective equipment (see Section 8).
		SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8).
		SureSelect XT2 Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept

Section 7. Handling and storage

Advice on general occupational hygiene

		tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	SureSelect XT2 Blocking Mix	Put on appropriate personal protective equipment (see Section 8).
	: SureSelect End Repair Enzyme Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect End Repair Nucleotide 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 dA-Tailing Master Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect Ligation Master Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect Herculase II Master Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	XT2 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 Pre-capture Indexed Adaptor Set A01-H12	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 XT2 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 XT2 Wash 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

Section 7. Handling and storage

SureSelect XT2 Wash 2	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect 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 XT2 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 XT2 Blocking Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

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

Section 7. Handling and storage

SureSelect Ligation Master Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Herculase II Master Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
XT2 Primer Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect XT2 Binding Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food 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 XT2 Wash 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 7. Handling and storage

SureSelect XT2 Wash 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect RNase Block	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect XT2 Hybridization Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect XT2 Blocking Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
SureSelect End Repair Enzyme Mix Glycerol	Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours.
SureSelect dA-Tailing Master Mix Glycerol Polyethylene glycol	Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours. DFG MAC-values list (Germany, 7/2017). PEAK: 8000 mg/m ³ , 4 times per shift, 15 minutes. Form: Inhalable fraction TWA: 1000 mg/m ³ 8 hours. Form: Inhalable fraction

Section 8. Exposure controls and personal protection

SureSelect Ligation Master Mix Glycerol Polyethylene glycol	Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours. DFG MAC-values list (Germany, 7/2017). PEAK: 8000 mg/m ³ , 4 times per shift, 15 minutes. Form: Inhalable fraction TWA: 1000 mg/m ³ 8 hours. Form: Inhalable fraction
SureSelect RNase Block Glycerol	Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours.

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

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

- Physical state**
- | | |
|--------------------------------------|---------|
| SureSelect End Repair Enzyme Mix | Liquid. |
| SureSelect End Repair Nucleotide Mix | Liquid. |
| SureSelect dA-Tailing Master Mix | Liquid. |
| SureSelect Ligation Master Mix | Liquid. |

Section 9. Physical and chemical properties

		SureSelect Herculase II Master Mix	Liquid.
		XT2 Primer Mix	Liquid.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Liquid.
		SureSelect XT2 Binding Buffer	Liquid.
		SureSelect XT2 Wash 1	Liquid.
		SureSelect XT2 Wash 2	Liquid.
		SureSelect RNase Block	Liquid.
		SureSelect XT2 Hybridization Buffer	Liquid.
		SureSelect XT2 Blocking Mix	Liquid.
Colour	:	SureSelect End Repair Enzyme Mix	Not available.
		SureSelect End Repair Nucleotide Mix	Not available.
		SureSelect dA-Tailing Master Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		SureSelect Herculase II Master Mix	Not available.
		XT2 Primer Mix	Not available.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
		SureSelect XT2 Binding Buffer	Not available.
		SureSelect XT2 Wash 1	Not available.
		SureSelect XT2 Wash 2	Not available.
		SureSelect RNase Block	Not available.
		SureSelect XT2 Hybridization Buffer	Not available.
		SureSelect XT2 Blocking Mix	Not available.
Odour	:	SureSelect End Repair Enzyme Mix	Not available.
		SureSelect End Repair Nucleotide Mix	Not available.
		SureSelect dA-Tailing Master Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		SureSelect Herculase II Master Mix	Not available.
		XT2 Primer Mix	Not available.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
		SureSelect XT2 Binding Buffer	Not available.
		SureSelect XT2 Wash 1	Not available.
		SureSelect XT2 Wash 2	Not available.
		SureSelect RNase Block	Not available.
		SureSelect XT2 Hybridization Buffer	Not available.
		SureSelect XT2 Blocking Mix	Not available.
Odour threshold	:	SureSelect End Repair Enzyme Mix	Not available.
		SureSelect End Repair Nucleotide Mix	Not available.
		SureSelect dA-Tailing Master Mix	Not available.
		SureSelect Ligation Master Mix	Not available.

Section 9. Physical and chemical properties

	Mix	
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	Not available.
pH	: SureSelect End Repair Enzyme Mix	7.5
	SureSelect End Repair Nucleotide Mix	7.5
	SureSelect dA-Tailing Master Mix	7.5
	SureSelect Ligation Master Mix	7.5
	SureSelect Herculase II Master Mix	10
	XT2 Primer Mix	7.5
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	7 to 8
	SureSelect XT2 Binding Buffer	7.5
	SureSelect XT2 Wash 1	7
	SureSelect XT2 Wash 2	7
	SureSelect RNase Block	Not available.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	7.5
Melting point	: SureSelect End Repair Enzyme Mix	Not available.
	SureSelect End Repair Nucleotide Mix	0°C (32°F)
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	0°C (32°F)
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	0°C (32°F)
	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	0°C (32°F)
	SureSelect XT2 Wash 2	0°C (32°F)
	SureSelect RNase Block	Not available.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	0°C (32°F)

Section 9. Physical and chemical properties

Boiling point	:	SureSelect End Repair Enzyme Mix	Not available.	
		SureSelect End Repair Nucleotide Mix	100°C (212°F)	
		SureSelect dA-Tailing Master Mix	Not available.	
		SureSelect Ligation Master Mix	Not available.	
		SureSelect Herculase II Master Mix	Not available.	
		XT2 Primer Mix	100°C (212°F)	
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	100°C (212°F)	
		SureSelect XT2 Binding Buffer	Not available.	
		SureSelect XT2 Wash 1	100°C (212°F)	
		SureSelect XT2 Wash 2	100°C (212°F)	
		SureSelect RNase Block	Not available.	
		SureSelect XT2 Hybridization Buffer	Not available.	
		SureSelect XT2 Blocking Mix	100°C (212°F)	
	Flash point	:	SureSelect End Repair Enzyme Mix	Not available.
			SureSelect End Repair Nucleotide Mix	Not available.
			SureSelect dA-Tailing Master Mix	Not available.
			SureSelect Ligation Master Mix	Not available.
			SureSelect Herculase II Master Mix	Not available.
			XT2 Primer Mix	Not available.
			SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
		SureSelect XT2 Binding Buffer	Not available.	
		SureSelect XT2 Wash 1	Not available.	
		SureSelect XT2 Wash 2	Not available.	
		SureSelect RNase Block	Not available.	
		SureSelect XT2 Hybridization Buffer	Not available.	
		SureSelect XT2 Blocking Mix	Not available.	
Evaporation rate		:	SureSelect End Repair Enzyme Mix	Not available.
			SureSelect End Repair Nucleotide Mix	Not available.
			SureSelect dA-Tailing Master Mix	Not available.
			SureSelect Ligation Master Mix	Not available.
			SureSelect Herculase II Master Mix	Not available.
			XT2 Primer Mix	Not available.
			SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
		SureSelect XT2 Binding Buffer	Not available.	
		SureSelect XT2 Wash 1	Not available.	
		SureSelect XT2 Wash 2	Not available.	
		SureSelect RNase Block	Not available.	
		SureSelect XT2 Hybridization Buffer	Not available.	

Section 9. Physical and chemical properties

	SureSelect XT2 Blocking Mix	Not available.
Flammability (solid, gas)	: SureSelect End Repair	Not applicable.
	Enzyme Mix	
	SureSelect End Repair	Not applicable.
	Nucleotide Mix	
	SureSelect dA-Tailing	Not applicable.
	Master Mix	
	SureSelect Ligation Master	Not applicable.
	Mix	
	SureSelect Herculase II	Not applicable.
	Master Mix	
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture	Not applicable.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	Not applicable.
	Buffer	
	SureSelect XT2 Wash 1	Not applicable.
	SureSelect XT2 Wash 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect XT2	Not applicable.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not applicable.
Lower and upper explosive (flammable) limits	: SureSelect End Repair	Not available.
	Enzyme Mix	
	SureSelect End Repair	Not available.
	Nucleotide Mix	
	SureSelect dA-Tailing	Not available.
	Master Mix	
	SureSelect Ligation Master	Not available.
	Mix	
	SureSelect Herculase II	Not available.
	Master Mix	
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture	Not available.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	Not available.
	Buffer	
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not available.
Vapour pressure	: SureSelect End Repair	Not available.
	Enzyme Mix	
	SureSelect End Repair	Not available.
	Nucleotide Mix	
	SureSelect dA-Tailing	Not available.
	Master Mix	
	SureSelect Ligation Master	Not available.
	Mix	
	SureSelect Herculase II	Not available.
	Master Mix	
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture	Not available.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	Not available.
	Buffer	
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.

Section 9. Physical and chemical properties

	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not available.
Vapour density	: SureSelect End Repair	Not available.
	Enzyme Mix	
	SureSelect End Repair	Not available.
	Nucleotide Mix	
	SureSelect dA-Tailing	Not available.
	Master Mix	
	SureSelect Ligation Master	Not available.
	Mix	
	SureSelect Herculase II	Not available.
	Master Mix	
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture	Not available.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	Not available.
	Buffer	
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not available.
Relative density	: SureSelect End Repair	Not available.
	Enzyme Mix	
	SureSelect End Repair	Not available.
	Nucleotide Mix	
	SureSelect dA-Tailing	Not available.
	Master Mix	
	SureSelect Ligation Master	Not available.
	Mix	
	SureSelect Herculase II	Not available.
	Master Mix	
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture	Not available.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	Not available.
	Buffer	
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2	Not available.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	Not available.
Solubility	: SureSelect End Repair	Soluble in the following materials: cold water and hot water.
	Enzyme Mix	
	SureSelect End Repair	Easily soluble in the following materials: cold water and hot water.
	Nucleotide Mix	
	SureSelect dA-Tailing	Soluble in the following materials: cold water and hot water.
	Master Mix	
	SureSelect Ligation Master	Soluble in the following materials: cold water and hot water.
	Mix	
	SureSelect Herculase II	Easily soluble in the following materials: cold water and hot water.
	Master Mix	
	XT2 Primer Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect Pre-capture	Easily soluble in the following materials: cold water and hot water.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	Easily soluble in the following materials: cold water and hot water.
	Buffer	
	SureSelect XT2 Wash 1	Easily soluble in the following materials: cold water and hot water.

Section 9. Physical and chemical properties

	SureSelect XT2 Wash 2	Easily soluble in the following materials: cold water and hot water.
	SureSelect RNase Block	Soluble in the following materials: cold water and hot water.
	SureSelect XT2 Hybridization Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT2 Blocking Mix	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: SureSelect End Repair Enzyme Mix	Not available.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	Not available.
Auto-ignition temperature	: SureSelect End Repair Enzyme Mix	Not available.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	Not available.
Decomposition temperature	: SureSelect End Repair Enzyme Mix	Not available.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture Indexed Adaptor Set	Not available.

Section 9. Physical and chemical properties

	A01-H12	
	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	Not available.
Viscosity	: SureSelect End Repair Enzyme Mix	Not available.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture Indexed Adaptor Set	Not available.
	A01-H12	
	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	Not available.

Section 10. Stability and reactivity

Reactivity	: SureSelect End Repair Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect End Repair Nucleotide Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect dA-Tailing Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Ligation Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Herculase II Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	XT2 Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Pre-capture Indexed Adaptor Set	No specific test data related to reactivity available for this product or its ingredients.
	A01-H12	
	SureSelect XT2 Binding Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT2 Wash 1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT2 Wash 2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect RNase Block	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT2 Hybridization Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT2 Blocking Mix	No specific test data related to reactivity available for this product or its ingredients.

Section 10. Stability and reactivity

Chemical stability	: SureSelect End Repair Enzyme Mix	The product is stable.	
	SureSelect End Repair Nucleotide Mix	The product is stable.	
	SureSelect dA-Tailing Master Mix	The product is stable.	
	SureSelect Ligation Master Mix	The product is stable.	
	SureSelect Herculase II Master Mix	The product is stable.	
	XT2 Primer Mix	The product is stable.	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	The product is stable.	
	SureSelect XT2 Binding Buffer	The product is stable.	
	SureSelect XT2 Wash 1	The product is stable.	
	SureSelect XT2 Wash 2	The product is stable.	
	SureSelect RNase Block	The product is stable.	
	SureSelect XT2 Hybridization Buffer	The product is stable.	
	SureSelect XT2 Blocking Mix	The product is stable.	
	Possibility of hazardous reactions	: SureSelect End Repair Enzyme Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
		SureSelect End Repair Nucleotide Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
		SureSelect dA-Tailing Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Ligation Master Mix		Under normal conditions of storage and use, hazardous reactions will not occur.	
SureSelect Herculase II Master Mix		Under normal conditions of storage and use, hazardous reactions will not occur.	
XT2 Primer Mix		Under normal conditions of storage and use, hazardous reactions will not occur.	
SureSelect Pre-capture Indexed Adaptor Set A01-H12		Under normal conditions of storage and use, hazardous reactions will not occur.	
SureSelect XT2 Binding Buffer		Under normal conditions of storage and use, hazardous reactions will not occur.	
SureSelect XT2 Wash 1		Under normal conditions of storage and use, hazardous reactions will not occur.	
SureSelect XT2 Wash 2		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 XT2 Hybridization Buffer		Under normal conditions of storage and use, hazardous reactions will not occur.	
SureSelect XT2 Blocking Mix		Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid		: SureSelect End Repair Enzyme Mix	No specific data.
		SureSelect End Repair Nucleotide Mix	No specific data.
		SureSelect dA-Tailing Master Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.	
	SureSelect Herculase II Master Mix	No specific data.	
	XT2 Primer Mix	No specific data.	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.	

Section 10. Stability and reactivity

SureSelect XT2 Binding Buffer	No specific data.
SureSelect XT2 Wash 1	No specific data.
SureSelect XT2 Wash 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect XT2 Hybridization Buffer	No specific data.
SureSelect XT2 Blocking Mix	No specific data.

Incompatible materials	: SureSelect End Repair Enzyme Mix	May react or be incompatible with oxidising materials.
	SureSelect End Repair Nucleotide Mix	May react or be incompatible with oxidising materials.
	SureSelect dA-Tailing Master Mix	May react or be incompatible with oxidising materials.
	SureSelect Ligation Master Mix	May react or be incompatible with oxidising materials.
	SureSelect Herculase II Master Mix	May react or be incompatible with oxidising materials.
	XT2 Primer Mix	May react or be incompatible with oxidising materials.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	May react or be incompatible with oxidising materials.
	SureSelect XT2 Binding Buffer	May react or be incompatible with oxidising materials.
	SureSelect XT2 Wash 1	May react or be incompatible with oxidising materials.
	SureSelect XT2 Wash 2	May react or be incompatible with oxidising materials.
	SureSelect RNase Block	May react or be incompatible with oxidising materials.
	SureSelect XT2 Hybridization Buffer	May react or be incompatible with oxidising materials.
	SureSelect XT2 Blocking Mix	May react or be incompatible with oxidising materials.

Hazardous decomposition products	: SureSelect End Repair Enzyme Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect End Repair Nucleotide Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect dA-Tailing Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Ligation Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Herculase II Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XT2 Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT2 Binding Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT2 Wash 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT2 Wash 2	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.	

Section 10. Stability and reactivity

SureSelect XT2
Hybridization Buffer

Under normal conditions of storage and use,
hazardous decomposition products should not be
produced.

SureSelect XT2 Blocking Mix

Under normal conditions of storage and use,
hazardous decomposition products should not be
produced.

Section 11. Toxicological information

[Information on toxicological effects](#)

[Acute toxicity](#)

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect End Repair Enzyme Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect dA-Tailing Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect Ligation Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-

[Irritation/Corrosion](#)

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect End Repair Enzyme Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
SureSelect dA-Tailing Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
SureSelect Ligation Master Mix Glycerol	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Polyethylene glycol	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Section 11. Toxicological information

SureSelect RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
SureSelect RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 Micrograms	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 milligrams	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 milligrams	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	SureSelect End Repair Enzyme Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	SureSelect Ligation Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.

Section 11. Toxicological information

SureSelect Herculase II Master Mix	Not available.
XT2 Primer Mix	Not available.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
SureSelect XT2 Binding Buffer	Not available.
SureSelect XT2 Wash 1	Not available.
SureSelect XT2 Wash 2	Not available.
SureSelect RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect XT2 Hybridization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect XT2 Blocking Mix	Not available.

Potential acute health effects

Eye contact

SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
SureSelect Ligation Master Mix	No known significant effects or critical hazards.
SureSelect Herculase II Master Mix	No known significant effects or critical hazards.
XT2 Primer Mix	No known significant effects or critical hazards.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
SureSelect XT2 Wash 1	No known significant effects or critical hazards.
SureSelect XT2 Wash 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect XT2 Hybridization Buffer	Causes serious eye irritation.
SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.

Inhalation

SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
SureSelect Ligation Master Mix	No known significant effects or critical hazards.
SureSelect Herculase II Master Mix	No known significant effects or critical hazards.
XT2 Primer Mix	No known significant effects or critical hazards.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
SureSelect XT2 Wash 1	No known significant effects or critical hazards.
SureSelect XT2 Wash 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect XT2 Hybridization Buffer	No known significant effects or critical hazards.
SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.

Section 11. Toxicological information

Skin contact	:	SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.	
		SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.	
		SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.	
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.	
		SureSelect Herculase II Master Mix	No known significant effects or critical hazards.	
		XT2 Primer Mix	No known significant effects or critical hazards.	
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.	
		SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.	
		SureSelect XT2 Wash 1	No known significant effects or critical hazards.	
		SureSelect XT2 Wash 2	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect XT2 Hybridization Buffer	No known significant effects or critical hazards.	
		SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.	
	Ingestion	:	SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
			SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
			SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
			SureSelect Ligation Master Mix	No known significant effects or critical hazards.
			SureSelect Herculase II Master Mix	No known significant effects or critical hazards.
			XT2 Primer Mix	No known significant effects or critical hazards.
			SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
		SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.	
		SureSelect XT2 Wash 1	No known significant effects or critical hazards.	
		SureSelect XT2 Wash 2	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect XT2 Hybridization Buffer	No known significant effects or critical hazards.	
		SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.	

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	SureSelect End Repair Enzyme Mix	No specific data.
		SureSelect End Repair Nucleotide Mix	No specific data.
		SureSelect dA-Tailing Master Mix	No specific data.
		SureSelect Ligation Master Mix	No specific data.
		SureSelect Herculase II Master Mix	No specific data.
		XT2 Primer Mix	No specific data.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.
		SureSelect XT2 Binding Buffer	No specific data.
		SureSelect XT2 Wash 1	No specific data.
		SureSelect XT2 Wash 2	No specific data.

Section 11. Toxicological information

	SureSelect RNase Block	No specific data.
	SureSelect XT2	Adverse symptoms may include the following:
	Hybridization Buffer	pain or irritation watering redness
Inhalation	SureSelect XT2 Blocking Mix	No specific data.
	: SureSelect End Repair	No specific data.
	Enzyme Mix	
	SureSelect End Repair	No specific data.
	Nucleotide Mix	
	SureSelect dA-Tailing	No specific data.
	Master Mix	
	SureSelect Ligation Master	No specific data.
	Mix	
	SureSelect Herculase II	No specific data.
	Master Mix	
	XT2 Primer Mix	No specific data.
	SureSelect Pre-capture	No specific data.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	No specific data.
	Buffer	
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect XT2	No specific data.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	No specific data.
Skin contact	: SureSelect End Repair	No specific data.
	Enzyme Mix	
	SureSelect End Repair	No specific data.
	Nucleotide Mix	
	SureSelect dA-Tailing	No specific data.
	Master Mix	
	SureSelect Ligation Master	No specific data.
	Mix	
	SureSelect Herculase II	No specific data.
	Master Mix	
	XT2 Primer Mix	No specific data.
	SureSelect Pre-capture	No specific data.
	Indexed Adaptor Set	
	A01-H12	
	SureSelect XT2 Binding	No specific data.
	Buffer	
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect XT2	No specific data.
	Hybridization Buffer	
	SureSelect XT2 Blocking Mix	No specific data.
Ingestion	: SureSelect End Repair	No specific data.
	Enzyme Mix	
	SureSelect End Repair	No specific data.
	Nucleotide Mix	
	SureSelect dA-Tailing	No specific data.
	Master Mix	
	SureSelect Ligation Master	No specific data.
	Mix	
	SureSelect Herculase II	No specific data.
	Master Mix	
	XT2 Primer Mix	No specific data.
	SureSelect Pre-capture	No specific data.
	Indexed Adaptor Set	
	A01-H12	

Section 11. Toxicological information

SureSelect XT2 Binding Buffer	No specific data.
SureSelect XT2 Wash 1	No specific data.
SureSelect XT2 Wash 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect XT2 Hybridization Buffer	No specific data.
SureSelect XT2 Blocking Mix	No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
	SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
	SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	SureSelect Herculase II Master Mix	No known significant effects or critical hazards.
	XT2 Primer Mix	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
	SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect XT2 Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.
Carcinogenicity	: SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
	SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
	SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	SureSelect Herculase II Master Mix	No known significant effects or critical hazards.
	XT2 Primer Mix	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
	SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect XT2 Hybridization Buffer	No known significant effects or critical hazards.

Section 11. Toxicological information

Mutagenicity	SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.
	SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
	SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
	SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	SureSelect Herculase II Master Mix	No known significant effects or critical hazards.
	XT2 Primer Mix	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
	SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect XT2 Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.

Reproductive toxicity :

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SureSelect End Repair Enzyme Mix Glycerol	12600	N/A	N/A	N/A	N/A
SureSelect dA-Tailing Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
Polyethylene glycol	28000	N/A	N/A	N/A	N/A
SureSelect Ligation Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
Polyethylene glycol	28000	N/A	N/A	N/A	N/A
SureSelect RNase Block Glycerol	12600	N/A	N/A	N/A	N/A
SureSelect XT2 Hybridization Buffer SureSelect XT2 Hybridization Buffer	48549	11308	N/A	N/A	N/A
Sodium dodecyl sulphate	1288	300	N/A	N/A	N/A

Other information	SureSelect End Repair Enzyme Mix	Adverse symptoms may include the following: May cause skin sensitisation.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture	Not available.

Section 11. Toxicological information

Indexed Adaptor Set A01-H12	
SureSelect XT2 Binding Buffer	Not available.
SureSelect XT2 Wash 1	Not available.
SureSelect XT2 Wash 2	Not available.
SureSelect RNase Block	Adverse symptoms may include the following: May cause skin sensitisation.
SureSelect XT2 Hybridization Buffer	Not available.
SureSelect XT2 Blocking Mix	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect End Repair Enzyme Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
SureSelect dA-Tailing Master Mix Glycerol Polyethylene glycol	Acute LC50 54000 mg/l Fresh water Acute LC50 >1000000 µg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Salmo salar - Parr	96 hours 96 hours
SureSelect Ligation Master Mix Glycerol Polyethylene glycol	Acute LC50 54000 mg/l Fresh water Acute LC50 >1000000 µg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Salmo salar - Parr	96 hours 96 hours
SureSelect RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water Acute LC50 900 µg/l Marine water Acute LC50 1400 µg/l Fresh water Acute LC50 590 µg/l Fresh water Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC >1357 µg/l Fresh water	Algae - Skeletonema costatum Crustaceans - Artemia salina - Adult Daphnia - Daphnia pulex - Neonate Fish - Cirrhinus mrigala - Larvae Algae - Ulva fasciata - Zoea Crustaceans - Pseudosida ramosa - Neonate Daphnia - Daphnia magna - Neonate Fish - Pimephales promelas	96 hours 48 hours 48 hours 96 hours 96 hours 21 days 21 days 42 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect End Repair Enzyme Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
SureSelect dA-Tailing Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Section 12. Ecological information

SureSelect Ligation Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
SureSelect RNase Block Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect End Repair Enzyme Mix Glycerol	-1.76	-	low
SureSelect dA-Tailing Master Mix Glycerol Polyethylene glycol	-1.76 -	- 3.2	low low
SureSelect Ligation Master Mix Glycerol Polyethylene glycol	-1.76 -	- 3.2	low low
SureSelect RNase Block Glycerol	-1.76	-	low
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	-2.03	-	low

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
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	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision	: 24/06/2021
Date of previous issue	: 03/04/2019
Version	: 6

Section 16. Any other relevant information

Key to abbreviations

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

Procedure used to derive the classification

Classification	Justification
SureSelect XT2 Hybridization Buffer SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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