

SAFETY DATA SHEET



SureSelect XT2 Reagent Kit - ILM - 480 Reactions

Section 1. Identification

1.1 Product identifier

Product name : 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 Herculanase 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

Validation date : 6/24/2021

1.2 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 Herculanase 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

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status

<ul style="list-style-type: none"> SureSelect End Repair Enzyme Mix SureSelect End Repair Nucleotide Mix 	<p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> SureSelect dA-Tailing Master Mix SureSelect Ligation Master Mix SureSelect Herculanase II Master Mix 	<p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> XT2 Primer Mix 	<p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> SureSelect Pre-capture Indexed Adaptor Set A01-H12 	<p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> SureSelect XT2 Binding Buffer 	<p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> SureSelect XT2 Wash 1 	<p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> SureSelect XT2 Wash 2 	<p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> SureSelect RNase Block 	<p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</p>
<ul style="list-style-type: none"> SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix 	<p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>

Classification of the substance or mixture

Section 2. Hazards identification

SureSelect End Repair Enzyme

Mix

H319 EYE IRRITATION - Category 2A

SureSelect dA-Tailing Master

Mix

H319 EYE IRRITATION - Category 2A

SureSelect Ligation Master Mix

H319 EYE IRRITATION - Category 2A

SureSelect RNase Block

H320 EYE IRRITATION - Category 2B

SureSelect XT2 Hybridization

Buffer

H319 EYE IRRITATION - Category 2A

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

Ingredients of unknown toxicity	:	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 Herculanase 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	Percentage of the mixture consisting of ingredient

Section 2. Hazards identification

Buffer

(s) of unknown hazards to the aquatic environment:
1.4%

2.2 GHS label elements

Hazard pictograms

: SureSelect End Repair Enzyme Mix



SureSelect dA-Tailing Master Mix



SureSelect Ligation Master Mix



SureSelect XT2 Hybridization Buffer



Signal word

: SureSelect End Repair Enzyme Mix	Warning
SureSelect End Repair Nucleotide Mix	No signal word.
SureSelect dA-Tailing Master Mix	Warning
SureSelect Ligation Master Mix	Warning
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.
SureSelect RNase Block	Warning
SureSelect XT2 Hybridization Buffer	Warning
SureSelect XT2 Blocking Mix	No signal word.

Hazard statements

: SureSelect End Repair Enzyme Mix	H319 - Causes serious eye irritation.
SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
SureSelect dA-Tailing Master Mix	H319 - Causes serious eye irritation.
SureSelect Ligation Master Mix	H319 - Causes serious eye irritation.
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	H320 - Causes eye irritation.
SureSelect XT2 Hybridization Buffer	H319 - Causes serious eye irritation.
SureSelect XT2 Blocking Mix	H412 - Harmful to aquatic life with long lasting effects.
	No known significant effects or critical hazards.

Section 2. Hazards identification

Precautionary statements

Prevention

SureSelect End Repair Enzyme Mix	P280 - Wear eye or face protection.
SureSelect End Repair Nucleotide Mix	P264 - Wash hands thoroughly after handling. Not applicable.
SureSelect dA-Tailing Master Mix	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
SureSelect Ligation Master Mix	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
SureSelect Herculanase 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	P264 - Wash hands thoroughly after handling.
SureSelect XT2 Hybridization Buffer	P280 - Wear eye or face protection. P273 - Avoid release to the environment. P264 - Wash hands thoroughly after handling.
SureSelect XT2 Blocking Mix	Not applicable.

Response

SureSelect End Repair Enzyme Mix	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
SureSelect End Repair Nucleotide Mix	Not applicable.
SureSelect dA-Tailing Master Mix	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
SureSelect Ligation Master Mix	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
SureSelect Herculanase 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	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
SureSelect XT2 Hybridization Buffer	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.

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	SureSelect XT2 Blocking Mix	attention. 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 Herculanase 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 Hybridization Buffer	Not applicable.
	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 Herculanase 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 Hybridization Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SureSelect XT2 Blocking Mix	Not applicable.
Supplemental label elements	: 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 Herculanase 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.

2.3 Other hazards

Section 2. Hazards identification

Hazards not otherwise classified	: 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/information on ingredients

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

Ingredient name	%	CAS number
SureSelect End Repair Enzyme Mix		
Glycerol	≥10 - ≤25	56-81-5
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3	1185-53-1
SureSelect dA-Tailing Master Mix		
Glycerol	≥10 - ≤25	56-81-5
Polyethylene glycol	≥10 - ≤17	25322-68-3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤2.7	1185-53-1
SureSelect Ligation Master Mix		
Glycerol	≥25 - ≤50	56-81-5
Polyethylene glycol	≥10 - ≤17	25322-68-3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤2.7	1185-53-1
SureSelect Herculase II Master Mix		
Ammonium sulphate	≤0.1	7783-20-2
SureSelect XT2 Binding Buffer		
Sodium chloride	<10	7647-14-5
SureSelect XT2 Wash 1		
Sodium dodecyl sulphate	≤0.3	151-21-3

Section 3. Composition/information on ingredients

SureSelect XT2 Wash 2 Sodium dodecyl sulphate	≤0.3	151-21-3
SureSelect RNase Block Glycerol	≥50 - ≤75	56-81-5
SureSelect XT2 Hybridization Buffer Sodium chloride	≤10	7647-14-5
Sodium dodecyl sulphate	≤3	151-21-3
Phosphoric acid, monosodium salt, monohydrate	≤3	10049-21-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

4.1 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. Continue to rinse for at least 10 minutes. Get medical attention.
	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. Continue to rinse for at least 10 minutes. Get medical attention.
	SureSelect Ligation Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	SureSelect Herculanase 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.

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	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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect Ligation Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain

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		an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	SureSelect 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. 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.
Skin contact	: SureSelect End Repair Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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

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		medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SureSelect Ligation Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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 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 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 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

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SureSelect dA-Tailing Master Mix	<p>medical attention if symptoms occur. 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 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.</p>
SureSelect Ligation Master Mix	<p>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 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.</p>
SureSelect Herculase II Master Mix	<p>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.</p>
XT2 Primer Mix	<p>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.</p>
SureSelect Pre-capture Indexed Adaptor Set A01-H12	<p>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.</p>
SureSelect XT2 Binding Buffer	<p>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.</p>

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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 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 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 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 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.

[4.2 Most important symptoms/effects, acute and delayed](#)

[Potential acute health effects](#)

Section 4. First aid measures

Eye contact	: SureSelect End Repair Enzyme Mix	Causes serious eye irritation.
	SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
	SureSelect dA-Tailing Master Mix	Causes serious eye irritation.
	SureSelect Ligation Master Mix	Causes serious eye irritation.
	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	Causes eye irritation.
	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
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.
Skin contact		: SureSelect End Repair Enzyme Mix
	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
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		No known significant effects or critical hazards.

Section 4. First aid measures

Adaptor Set A01-H12	
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	Adverse symptoms may include the following: pain or irritation watering redness
SureSelect End Repair Nucleotide Mix	No specific data.
SureSelect dA-Tailing Master Mix	Adverse symptoms may include the following: pain or irritation watering redness
SureSelect Ligation Master Mix	Adverse symptoms may include the following: pain or irritation watering redness
SureSelect Herculanase 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	Adverse symptoms may include the following: irritation watering redness
SureSelect XT2 Hybridization Buffer	Adverse symptoms may include the following: pain or irritation watering redness

Inhalation

: 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 Herculanase 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.

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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.	
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.	

4.3 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.

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	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 Indexed Adaptor Set A01-H12	No specific treatment.
	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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SureSelect Ligation Master Mix	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	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

Section 4. First aid measures

SureSelect RNase Block

or without suitable training.

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 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. Fire-fighting measures

5.1 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.
SureSelect RNase Block	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.

Section 5. Fire-fighting measures

5.2 Special hazards arising from the substance or mixture

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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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.
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	No specific data.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.
SureSelect XT2 Binding Buffer	Decomposition products may include the following

Section 5. Fire-fighting measures

<p>SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect RNase Block</p>	<p>materials: halogenated compounds metal oxide/oxides No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide</p>
<p>SureSelect XT2 Hybridization Buffer</p>	<p>Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides</p>
<p>SureSelect XT2 Blocking Mix</p>	<p>No specific data.</p>

5.3 Advice for firefighters

Special protective actions for fire-fighters

<p>: SureSelect End Repair Enzyme Mix</p>	<p>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.</p>
<p>SureSelect End Repair Nucleotide Mix</p>	<p>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.</p>
<p>SureSelect dA-Tailing Master Mix</p>	<p>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.</p>
<p>SureSelect Ligation Master Mix</p>	<p>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.</p>
<p>SureSelect Herculase II Master Mix</p>	<p>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.</p>
<p>XT2 Primer Mix</p>	<p>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.</p>
<p>SureSelect Pre-capture Indexed Adaptor Set A01-H12</p>	<p>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.</p>
<p>SureSelect XT2 Binding Buffer</p>	<p>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.</p>
<p>SureSelect XT2 Wash 1</p>	<p>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.</p>
<p>SureSelect XT2 Wash 2</p>	<p>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.</p>

Section 5. Fire-fighting measures

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

Section 5. Fire-fighting measures

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled 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 spilled 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 spilled 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

Section 6. Accidental release measures

SureSelect XT2 Wash 1	unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect 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 spilled material. Put on appropriate personal protective equipment.
SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Avoid breathing vapor 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 spilled material. Put on appropriate personal protective equipment.
For emergency responders : SureSelect End Repair Enzyme Mix	If specialized 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 specialized 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 specialized 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 specialized 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 specialized 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 specialized clothing is required to deal with the spillage, take note of any information in Section 8

Section 6. Accidental release measures

SureSelect Pre-capture Indexed Adaptor Set A01-H12	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized 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 specialized 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 specialized 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 2	If specialized 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 specialized 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 specialized 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 specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	
: SureSelect End Repair Enzyme Mix	Avoid dispersal of spilled 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 spilled 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 spilled 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 spilled 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 spilled 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 6. Accidental release measures

SureSelect Pre-capture Indexed Adaptor Set A01-H12	Avoid dispersal of spilled 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 spilled 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 spilled 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect RNase Block	Avoid dispersal of spilled 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 spilled 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). Water polluting material. May be harmful to the environment if released in large quantities.
SureSelect XT2 Blocking Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials 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	

Section 6. Accidental release measures

	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect 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. 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

7.1 Precautions for safe handling

Protective measures

: SureSelect End Repair Enzyme Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
SureSelect 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
SureSelect Ligation Master Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
SureSelect 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
SureSelect XT2 Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
SureSelect XT2 Blocking Mix	Put on appropriate personal protective equipment (see Section 8).

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Advice on general occupational hygiene

: 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 contaminated clothing and protective equipment

Section 7. Handling and storage

	SureSelect XT2 Wash 2	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.
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	: 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 unlabeled 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 unlabeled 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 unlabeled

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SureSelect Ligation Master Mix

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

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SureSelect XT2 Wash 2

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

[7.3 Specific end use\(s\)](#)

Section 7. Handling and storage

Recommendations	:	SureSelect End Repair Enzyme Mix	Industrial applications, Professional applications.
		SureSelect End Repair Nucleotide Mix	Industrial applications, Professional applications.
		SureSelect dA-Tailing Master Mix	Industrial applications, Professional applications.
		SureSelect Ligation Master Mix	Industrial applications, Professional applications.
		SureSelect Herculase II Master Mix	Industrial applications, Professional applications.
		XT2 Primer Mix	Industrial applications, Professional applications.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Industrial applications, Professional applications.
		SureSelect XT2 Binding Buffer	Industrial applications, Professional applications.
		SureSelect XT2 Wash 1	Industrial applications, Professional applications.
		SureSelect XT2 Wash 2	Industrial applications, Professional applications.
		SureSelect RNase Block	Industrial applications, Professional applications.
		SureSelect XT2 Hybridization Buffer	Industrial applications, Professional applications.
		SureSelect XT2 Blocking Mix	Industrial applications, Professional applications.
Industrial sector specific solutions	:	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 Hybridization Buffer	Not applicable.
		SureSelect XT2 Blocking Mix	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SureSelect End Repair Enzyme Mix Glycerol 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust None.
SureSelect dA-Tailing Master Mix Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust

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Polyethylene glycol	AIHA WEEL (United States, 5/2018). TWA: 10 mg/m ³ 8 hours.
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None.
SureSelect Ligation Master Mix	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
Glycerol	TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Polyethylene glycol	AIHA WEEL (United States, 5/2018). TWA: 10 mg/m ³ 8 hours.
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None.
SureSelect Herculase II Master Mix	None.
Ammonium sulphate	None.
SureSelect XT2 Binding Buffer	None.
Sodium chloride	None.
SureSelect XT2 Wash 1	None.
Sodium dodecyl sulphate	None.
SureSelect XT2 Wash 2	None.
Sodium dodecyl sulphate	None.
SureSelect RNase Block	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
Glycerol	TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
SureSelect XT2 Hybridization Buffer	None.
Sodium chloride	None.
Sodium dodecyl sulphate	None.
Phosphoric acid, monosodium salt, monohydrate	None.

8.2 Exposure controls

Appropriate engineering controls

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

Environmental exposure controls

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

Individual protection measures

Section 8. Exposure controls/personal protection

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

Section 9. Physical and chemical properties

9.1 Information on basic 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.
	: 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.
	Color	: SureSelect End Repair Enzyme Mix
: 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.	

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	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.
Odor	: 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.
Odor 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.
	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

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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)	
	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	Not available.		

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	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	Not available.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	Not available.
Flammability (solid, gas)	: 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 Hybridization Buffer	Not applicable.
	SureSelect XT2 Blocking Mix	Not applicable.
Lower and upper explosive (flammable) limits	: 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.
Vapor pressure	: 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.

Vapor density :

Section 9. Physical and chemical properties

	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.
Relative density	: 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.
Solubility	: SureSelect End Repair Enzyme Mix	Soluble in the following materials: cold water and hot water.
	SureSelect End Repair Nucleotide Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect dA-Tailing Master Mix	Soluble in the following materials: cold water and hot water.
	SureSelect Ligation Master Mix	Soluble in the following materials: cold water and hot water.
	SureSelect Herculase II Master Mix	Easily soluble in the following materials: cold water and hot water.
	XT2 Primer Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT2 Binding Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT2 Wash 1	Easily soluble in the following materials: cold water and hot water.
	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.

Section 9. Physical and chemical properties

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 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.	
	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	Not available.	

Section 9. Physical and chemical properties

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	Not available.
SureSelect XT2 Hybridization Buffer	Not available.
SureSelect XT2 Blocking Mix	Not available.

Section 10. Stability and reactivity

10.1 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 Herculanase 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 A01-H12	No specific test data related to reactivity available for this product or its ingredients.
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.

10.2 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 Herculanase 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.

Section 10. Stability and reactivity

10.3 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.

10.4 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.
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.

10.5 Incompatible materials

SureSelect End Repair Enzyme Mix	May react or be incompatible with oxidizing materials.
SureSelect End Repair Nucleotide Mix	May react or be incompatible with oxidizing materials.
SureSelect dA-Tailing Master Mix	May react or be incompatible with oxidizing materials.
SureSelect Ligation Master Mix	May react or be incompatible with oxidizing materials.
SureSelect Herculase II Master Mix	May react or be incompatible with oxidizing materials.
XT2 Primer Mix	May react or be incompatible with oxidizing materials.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	May react or be incompatible with oxidizing materials.
SureSelect XT2 Binding Buffer	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

SureSelect XT2 Wash 1	May react or be incompatible with oxidizing materials.
SureSelect XT2 Wash 2	May react or be incompatible with oxidizing materials.
SureSelect RNase Block	May react or be incompatible with oxidizing materials.
SureSelect XT2 Hybridization Buffer	May react or be incompatible with oxidizing materials.
SureSelect XT2 Blocking Mix	May react or be incompatible with oxidizing materials.
10.6 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.
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

[11.1 Information on toxicological effects](#)

[Acute toxicity](#)

Section 11. Toxicological information

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 Herculanase II Master Mix Ammonium sulphate	LD50 Oral	Rat	2840 mg/kg	-
SureSelect XT2 Binding Buffer Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
SureSelect XT2 Wash 1 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
SureSelect XT2 Wash 2 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
SureSelect RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect XT2 Hybridization Buffer Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
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	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Section 11. Toxicological information

SureSelect Ligation 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	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
SureSelect XT2 Binding Buffer					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
SureSelect XT2 Wash 1					
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	-
Sodium dodecyl sulphate	Skin - Moderate irritant	Rabbit	-	24 hours 25 milligrams	-
	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	-
Sodium dodecyl sulphate	Skin - Mild irritant	Rabbit	-	24 hours 50 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 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					

Section 11. Toxicological information

Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
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	-

Sensitization

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 End Repair Enzyme Mix 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
SureSelect dA-Tailing Master Mix Polyethylene glycol	Category 3	Not applicable.	Respiratory tract irritation
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
SureSelect Ligation Master Mix Polyethylene glycol	Category 3	Not applicable.	Respiratory tract irritation
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
SureSelect XT2 Wash 1 Sodium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
SureSelect XT2 Wash 2 Sodium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
SureSelect XT2 Hybridization Buffer			

Section 11. Toxicological information

Sodium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
Phosphoric acid, monosodium salt, monohydrate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the 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.
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	Causes serious eye irritation.
SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
SureSelect dA-Tailing Master Mix	Causes serious eye irritation.
SureSelect Ligation Master Mix	Causes serious eye irritation.
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	Causes eye irritation.
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.

Section 11. Toxicological information

	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.
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	Adverse symptoms may include the following: pain or irritation watering redness
	SureSelect End Repair Nucleotide Mix	No specific data.
	SureSelect dA-Tailing Master Mix	Adverse symptoms may include the following: pain or irritation watering redness
	SureSelect Ligation Master Mix	Adverse symptoms may include the following: pain or irritation watering redness
	SureSelect Herculase II Master Mix	No specific data.
	XT2 Primer Mix	No specific data.

Section 11. Toxicological information

	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	Adverse symptoms may include the following: irritation watering redness
	SureSelect XT2 Hybridization Buffer	Adverse symptoms may include the following: pain or irritation watering redness
	SureSelect XT2 Blocking Mix	No specific data.
Inhalation	: 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.
	SureSelect XT2 Binding Buffer	No specific data.

Section 11. Toxicological information

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 and also 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.
	SureSelect XT2 Blocking Mix	No known significant effects or critical hazards.

Section 11. Toxicological information

Mutagenicity	: 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 Herculanase 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 (vapors) (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 Herculanase II Master Mix Ammonium sulphate	2840	N/A	N/A	N/A	N/A
SureSelect XT2 Binding Buffer SureSelect XT2 Binding Buffer	51724.1	N/A	N/A	N/A	N/A
Sodium chloride	3000	N/A	N/A	N/A	N/A
SureSelect XT2 Wash 1 Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
SureSelect XT2 Wash 2 Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
SureSelect RNase Block Glycerol	12600	N/A	N/A	N/A	N/A
SureSelect XT2 Hybridization Buffer SureSelect XT2 Hybridization Buffer	19857.3	N/A	N/A	N/A	50.7
Sodium chloride	3000	N/A	N/A	N/A	N/A
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5

Section 11. Toxicological information

Other information	: SureSelect End Repair Enzyme Mix	Adverse symptoms may include the following: May cause skin sensitization.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculanase 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	Adverse symptoms may include the following: May cause skin sensitization.
	SureSelect XT2 Hybridization Buffer	Not available.
	SureSelect XT2 Blocking Mix	Not available.

Section 12. Ecological information

12.1 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 Herculanase II Master Mix Ammonium sulphate	Acute LC50 2.6 mg/l Fresh water Acute LC50 14000 µg/l Fresh water Acute LC50 68 µg/l Fresh water Chronic NOEC 7.5 mg/l Marine water Chronic NOEC 143 µg/l Marine water	Crustaceans - Ceriodaphnia dubia - Young Daphnia - Daphnia magna - Young Fish - Oncorhynchus gorbuscha - Alevin Algae - Phaeodactylum tricornutum - Exponential growth phase Fish - Salmo salar - Post-smolt	48 hours 48 hours 96 hours 96 hours 5 weeks
SureSelect XT2 Binding Buffer Sodium chloride	Acute EC50 4.74 g/L Fresh water Acute EC50 519.6 mg/l Fresh water Acute EC50 402.6 mg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 1000000 µg/l Fresh water	Algae - Chlamydomonas reinhardtii Crustaceans - Cypris subglobosa Daphnia - Daphnia magna Aquatic plants - Lemna minor Fish - Morone saxatilis - Larvae	96 hours 48 hours 48 hours 96 hours 96 hours

Section 12. Ecological information

SureSelect XT2 Wash 1 Sodium dodecyl sulphate	Chronic LC10 781 mg/l Fresh water	Crustaceans - <i>Hyalella azteca</i> - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - <i>Lemna minor</i>	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - <i>Daphnia pulex</i>	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i> - Adult	8 weeks
	Acute EC50 1200 µg/l Marine water	Algae - <i>Skeletonema costatum</i>	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - <i>Artemia salina</i> - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
SureSelect XT2 Wash 2 Sodium dodecyl sulphate	Acute LC50 590 µg/l Fresh water	Fish - <i>Cirrhinus mrigala</i> - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - <i>Pseudosida ramosa</i> - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	42 days
	Acute EC50 1200 µg/l Marine water	Algae - <i>Skeletonema costatum</i>	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - <i>Artemia salina</i> - Adult	48 hours
SureSelect RNase Block Glycerol	Acute LC50 1400 µg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - <i>Cirrhinus mrigala</i> - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - <i>Pseudosida ramosa</i> - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	42 days
	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
SureSelect XT2 Hybridization Buffer Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - <i>Chlamydomonas reinhardtii</i>	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - <i>Cypris subglobosa</i>	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - <i>Lemna minor</i>	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - <i>Morone saxatilis</i> - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - <i>Hyalella azteca</i> - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - <i>Lemna minor</i>	96 hours
Sodium dodecyl sulphate	Chronic NOEC 0.314 g/L Fresh water	Daphnia - <i>Daphnia pulex</i>	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i> - Adult	8 weeks
	Acute EC50 1200 µg/l Marine water	Algae - <i>Skeletonema costatum</i>	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - <i>Artemia salina</i> - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - <i>Cirrhinus mrigala</i> - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
Chronic NOEC 1 mg/l Fresh water	Crustaceans - <i>Pseudosida</i>	21 days	

Section 12. Ecological information

	Chronic NOEC 3.2 mg/l Fresh water	ramosa - Neonate Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days

12.2 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	-	-
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	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SureSelect Herculase II Master Mix Ammonium sulphate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect End Repair Enzyme Mix Glycerol	-1.76	-	low
SureSelect dA-Tailing Master Mix Glycerol	-1.76	-	low
Polyethylene glycol	-	3.2	low
SureSelect Ligation Master Mix Glycerol	-1.76	-	low
Polyethylene glycol	-	3.2	low
SureSelect Herculase II			

Section 12. Ecological information

Master Mix Ammonium sulphate	-5.1	-	low
SureSelect XT2 Wash 1 Sodium dodecyl sulphate	-2.03	-	low
SureSelect XT2 Wash 2 Sodium dodecyl sulphate	-2.03	-	low
SureSelect RNase Block Glycerol	-1.76	-	low
SureSelect XT2 Hybridization Buffer Sodium dodecyl sulphate	-2.03	-	low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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.

Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) PAIR**: Polyoxyethylene octyl phenyl ether
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: Edetic acid; Sodium hydroxide

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification	:	SureSelect End Repair Enzyme Mix	EYE IRRITATION - Category 2A
		SureSelect End Repair Nucleotide Mix	Not applicable.
		SureSelect dA-Tailing Master Mix	EYE IRRITATION - Category 2A
		SureSelect Ligation Master Mix	EYE IRRITATION - Category 2A
		SureSelect Herculanase 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	EYE IRRITATION - Category 2B
		SureSelect XT2 Hybridization Buffer	EYE IRRITATION - Category 2A
		SureSelect XT2 Blocking Mix	Not applicable.

Composition/information on ingredients

Name	%	Classification
SureSelect End Repair Enzyme Mix		
Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2A
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SureSelect dA-Tailing Master		

Section 15. Regulatory information

Mix		
Glycerol	$\geq 10 - \leq 25$	EYE IRRITATION - Category 2A
Polyethylene glycol	$\geq 10 - \leq 17$	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤ 2.7	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SureSelect Ligation Master Mix		
Glycerol	$\geq 25 - \leq 50$	EYE IRRITATION - Category 2A
Polyethylene glycol	$\geq 10 - \leq 17$	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤ 2.7	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SureSelect XT2 Binding Buffer		
Sodium chloride	< 10	EYE IRRITATION - Category 2A
SureSelect RNase Block		
Glycerol	$\geq 50 - \leq 75$	EYE IRRITATION - Category 2A
SureSelect XT2 Hybridization Buffer		
Sodium chloride	≤ 10	EYE IRRITATION - Category 2A
Sodium dodecyl sulphate	≤ 3	FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Phosphoric acid, monosodium salt, monohydrate	≤ 3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

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.

Section 15. Regulatory information

[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. Other information

[History](#)

Date of issue : 06/24/2021

Date of previous issue : 04/03/2019

Version : 6

[Key to abbreviations](#)

: 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
 UN = United Nations

[Procedure used to derive the classification](#)

Classification	Justification
SureSelect End Repair Enzyme Mix EYE IRRITATION - Category 2A	Calculation method
SureSelect dA-Tailing Master Mix EYE IRRITATION - Category 2A	Calculation method
SureSelect Ligation Master Mix EYE IRRITATION - Category 2A	Calculation method
SureSelect RNase Block EYE IRRITATION - Category 2B	Calculation method
SureSelect XT2 Hybridization Buffer EYE IRRITATION - Category 2A AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method

Section 16. Other information

✔ Indicates information that has changed from previously issued version.

[Notice to reader](#)

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