

SAFETY DATA SHEET



SureSelect XT2 Library Prep Kit ILM - 96 Reactions, Part Number 5500-0131

Section 1. Identification

Product identifier : SureSelect XT2 Library Prep Kit ILM - 96 Reactions, Part Number 5500-0131
Part No. (Chemical Kit) : 5500-0131
Part No. : SureSelect End Repair Enzyme Mix 5190-7860
 SureSelect End Repair Nucleotide Mix 5190-7861
 SureSelect dA-Tailing Master Mix 5190-3806
 SureSelect Ligation Master Mix 5190-3807
 SureSelect Herculase II Master Mix 5190-3808
 XT2 Primer Mix 5190-3809
 SureSelect Pre-capture Indexed Adaptor Set A01-H12 5190-7945

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

Analytical reagent.

<input checked="" type="checkbox"/> SureSelect End Repair Enzyme Mix	6.2 ml (96 reactions)
<input type="checkbox"/> SureSelect End Repair Nucleotide Mix	1.6 ml (96 reactions)
<input type="checkbox"/> SureSelect dA-Tailing Master Mix	2.86 ml (96 reactions)
<input type="checkbox"/> SureSelect Ligation Master Mix	0.807 ml (96 reactions)
<input type="checkbox"/> SureSelect Herculase II Master Mix	8 ml (96 reactions)
<input type="checkbox"/> XT2 Primer Mix	0.32 ml (96 reactions)
<input type="checkbox"/> SureSelect Pre-capture Indexed Adaptor Set A01-H12	1.44 ml (96 x 0.015 ml)

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

<input checked="" type="checkbox"/> SureSelect End Repair Enzyme Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
<input type="checkbox"/> SureSelect dA-Tailing Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
<input type="checkbox"/> SureSelect Ligation Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
<input type="checkbox"/> SureSelect Herculase II Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%

Section 2. Hazard(s) identification

	Percentage of the mixture consisting of ingredient(s) of unknown inhalation 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%

GHS label elements

Signal word

☑ SureSelect End Repair Enzyme Mix	No signal word.
SureSelect End Repair Nucleotide Mix	No signal word.
SureSelect dA-Tailing Master Mix	No signal word.
SureSelect Ligation Master Mix	No signal word.
SureSelect Herculase II Master Mix	No signal word.
XT2 Primer Mix	No signal word.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No signal word.

Hazard statements

☑ 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.

Precautionary statements

Prevention

☑ 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.

Response

☑ 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.

Section 2. Hazard(s) identification

	SureSelect Herculase II Master Mix	Not applicable.
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
Storage	: SureSelect End Repair Enzyme Mix	Not applicable.
	SureSelect End Repair Nucleotide Mix	Not applicable.
	SureSelect dA-Tailing Master Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	SureSelect Herculase II Master Mix	Not applicable.
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
Disposal	: SureSelect End Repair Enzyme Mix	Not applicable.
	SureSelect End Repair Nucleotide Mix	Not applicable.
	SureSelect dA-Tailing Master Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	SureSelect Herculase II Master Mix	Not applicable.
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
Supplemental label elements		
Additional warning phrases	: SureSelect End Repair Enzyme Mix	Not applicable.
	SureSelect End Repair Nucleotide Mix	Not applicable.
	SureSelect dA-Tailing Master Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	SureSelect Herculase II Master Mix	Not applicable.
	XT2 Primer Mix	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
Other hazards which do not result in classification	: SureSelect End Repair Enzyme Mix	None known.
	SureSelect End Repair Nucleotide Mix	None known.
	SureSelect dA-Tailing Master Mix	None known.
	SureSelect Ligation Master Mix	None known.
	SureSelect Herculase II Master Mix	None known.

Section 2. Hazard(s) identification

XT2 Primer Mix	None known.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	None known.

Section 3. Composition and ingredient information

Substance/mixture	:	☑ SureSelect End Repair Enzyme Mix	Mixture
		SureSelect End Repair Nucleotide Mix	Mixture
		SureSelect dA-Tailing Master Mix	Mixture
		SureSelect Ligation Master Mix	Mixture
		SureSelect Herculase II Master Mix	Mixture
		XT2 Primer Mix	Mixture
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
☑ SureSelect End Repair Enzyme Mix		
Glycerol	≥10 - ≤30	56-81-5
SureSelect dA-Tailing Master Mix		
Glycerol	≥10 - ≤30	56-81-5
Polyethylene glycol	≥10 - ≤30	25322-68-3
SureSelect Ligation Master Mix		
Glycerol	≥30 - ≤60	56-81-5
Polyethylene glycol	≥10 - ≤30	25322-68-3

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	☑ SureSelect End Repair Enzyme Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		SureSelect End Repair Nucleotide Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		SureSelect dA-Tailing Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		SureSelect Ligation Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		SureSelect Herculase II Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

Section 4. First aid measures

	XT2 Primer Mix	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect 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.
Inhalation	: SureSelect End Repair Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect End Repair Nucleotide Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect dA-Tailing Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect Ligation Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect Herculase II Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	XT2 Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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.
	SureSelect End Repair Nucleotide Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect dA-Tailing Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Ligation Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Herculase II Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	XT2 Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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Ingestion	: SureSelect End Repair Enzyme Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect End Repair Nucleotide Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect dA-Tailing Master Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Ligation Master Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Herculase II Master Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	XT2 Primer Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: SureSelect End Repair Enzyme Mix	No known significant effects or critical hazards.
	SureSelect End Repair Nucleotide Mix	No known significant effects or critical hazards.
	SureSelect dA-Tailing Master Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	SureSelect Herculase II Master Mix	No known significant effects or critical hazards.

Section 4. First aid measures

	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.
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.
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.
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.
<u>Over-exposure signs/symptoms</u>		
Eye contact	: SureSelect End Repair Enzyme Mix	No specific data.
	SureSelect End Repair Nucleotide Mix	No specific data.
	SureSelect dA-Tailing Master Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	SureSelect Herculase II Master Mix	No specific data.
	XT2 Primer Mix	No specific data.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.

Section 4. First aid measures

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.	
	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.	
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.	

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.

Section 4. First aid measures

	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.
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.
Protection of first-aiders	: SureSelect End Repair Enzyme Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect End Repair Nucleotide Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect dA-Tailing Master Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Ligation Master Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Herculase II Master Mix	No action shall be taken involving any personal risk or without suitable training.
	XT2 Primer Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

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

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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.
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.
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.

Section 5. Firefighting measures

Special protective actions for fire-fighters

: <input checked="" type="checkbox"/>	SureSelect End Repair Enzyme Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect End Repair Nucleotide Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect dA-Tailing Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Ligation Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Herculase II Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	XT2 Primer Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	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

: <input checked="" type="checkbox"/>	SureSelect End Repair Enzyme Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect End Repair Nucleotide Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect dA-Tailing Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Ligation Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Herculase II Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	XT2 Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: SureSelect End Repair Enzyme Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect End Repair Nucleotide Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect dA-Tailing Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Ligation Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Herculase II Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	XT2 Primer Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: SureSelect End Repair Enzyme Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect End Repair Nucleotide Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect dA-Tailing Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Ligation Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Herculase II Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

Section 6. Accidental release measures

XT2 Primer Mix	information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Pre-capture Indexed Adaptor Set A01-H12	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions : SureSelect End Repair Enzyme Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect End Repair Nucleotide Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect dA-Tailing Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Ligation Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Herculase II Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
XT2 Primer Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up : SureSelect End Repair Enzyme Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect End Repair Nucleotide Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect dA-Tailing Master Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an

Section 6. Accidental release measures

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

Section 7. Handling and storage

Precautions for safe handling

Protective measures

<input checked="" type="checkbox"/> SureSelect End Repair Enzyme Mix	Put on appropriate personal protective equipment (see Section 8).
<input type="checkbox"/> SureSelect End Repair Nucleotide Mix	Put on appropriate personal protective equipment (see Section 8).
<input type="checkbox"/> SureSelect dA-Tailing Master Mix	Put on appropriate personal protective equipment (see Section 8).
<input type="checkbox"/> SureSelect Ligation Master Mix	Put on appropriate personal protective equipment (see Section 8).
<input type="checkbox"/> SureSelect Herculase II Master Mix	Put on appropriate personal protective equipment (see Section 8).
<input type="checkbox"/> XT2 Primer Mix	Put on appropriate personal protective equipment (see Section 8).
<input type="checkbox"/> SureSelect Pre-capture Indexed Adaptor Set A01-H12	Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

<input checked="" type="checkbox"/> 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.
<input type="checkbox"/> 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.
<input type="checkbox"/> 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

Section 7. Handling and storage

SureSelect Ligation Master Mix	before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.
Conditions for safe storage, including any incompatibilities : SureSelect End Repair Enzyme Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect End Repair Nucleotide Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect dA-Tailing Master Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled

Section 7. Handling and storage

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

SureSelect Herculase II Master Mix

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

XT2 Primer Mix

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


SureSelect Pre-capture Indexed Adaptor Set A01-H12

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

Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
<p> SureSelect End Repair Enzyme Mix Glycerol</p>	<p>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.</p>
<p>SureSelect dA-Tailing Master Mix Glycerol Polyethylene glycol</p>	<p>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours. DFG MAC-values list (Germany, 7/2015). PEAK: 8000 mg/m³, 4 times per shift, 15</p>

Section 8. Exposure controls and personal protection

SureSelect Ligation Master Mix

Glycerol

Polyethylene glycol

minutes. Form: Inhalable fraction
TWA: 1000 mg/m³ 8 hours. Form: Inhalable fraction

Safe Work Australia (Australia, 1/2014).

TWA: 10 mg/m³ 8 hours.

DFG MAC-values list (Germany, 7/2015).

PEAK: 8000 mg/m³, 4 times per shift, 15 minutes. Form: Inhalable fraction

TWA: 1000 mg/m³ 8 hours. Form: Inhalable fraction

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

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

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

Section 9. Physical and chemical properties

	XT2 Primer Mix	Liquid.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Liquid.
Colour	: SureSelect End Repair Enzyme Mix	Not available.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Odour	: SureSelect End Repair Enzyme Mix	Not available.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Odour threshold	: SureSelect End Repair Enzyme Mix	Not available.
	SureSelect End Repair Nucleotide Mix	Not available.
	SureSelect dA-Tailing Master Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	SureSelect Herculase II Master Mix	Not available.
	XT2 Primer Mix	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	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

Section 9. Physical and chemical properties

Melting point	: <input checked="" type="checkbox"/> 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)	
	Boiling point	: <input checked="" type="checkbox"/> 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)	
Flash point		: <input checked="" type="checkbox"/> 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.	
	Evaporation rate	: <input checked="" type="checkbox"/> 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.	

Section 9. Physical and chemical properties

Flammability (solid, gas)	: <input checked="" type="checkbox"/> 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.	
	Lower and upper explosive (flammable) limits	: <input checked="" type="checkbox"/> 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.	
Vapour pressure		: <input checked="" type="checkbox"/> 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.	
	Vapour density	: <input checked="" type="checkbox"/> 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.	

Section 9. Physical and chemical properties

Relative density	: <input checked="" type="checkbox"/> 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.	
	Solubility	: <input checked="" type="checkbox"/> 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.	
Partition coefficient: n-octanol/water		: <input checked="" type="checkbox"/> 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.	
	Auto-ignition temperature	: <input checked="" type="checkbox"/> 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.	

Section 9. Physical and chemical properties

Decomposition temperature	<input checked="" type="checkbox"/> 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.	
	Viscosity	<input checked="" type="checkbox"/> 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.

Section 10. Stability and reactivity

Reactivity	<input checked="" type="checkbox"/> SureSelect End Repair Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.	
	SureSelect End Repair Nucleotide Mix	No specific test data related to reactivity available for this product or its ingredients.	
	SureSelect dA-Tailing Master Mix	No specific test data related to reactivity available for this product or its ingredients.	
	SureSelect Ligation Master Mix	No specific test data related to reactivity available for this product or its ingredients.	
	SureSelect Herculase II Master Mix	No specific test data related to reactivity available for this product or its ingredients.	
	XT2 Primer Mix	No specific test data related to reactivity available for this product or its ingredients.	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific test data related to reactivity available for this product or its ingredients.	
	Chemical stability	<input checked="" type="checkbox"/> SureSelect End Repair Enzyme Mix	The product is stable.
		SureSelect End Repair Nucleotide Mix	The product is stable.
		SureSelect dA-Tailing Master Mix	The product is stable.
SureSelect Ligation Master Mix		The product is stable.	
SureSelect Herculase II Master Mix		The product is stable.	
XT2 Primer Mix		The product is stable.	
SureSelect Pre-capture Indexed Adaptor Set A01-H12		The product is stable.	

Section 10. Stability and reactivity

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.
	Conditions to avoid	: SureSelect End Repair Enzyme Mix
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.
Incompatible materials		: SureSelect End Repair Enzyme Mix
	SureSelect End Repair Nucleotide Mix	May react or be incompatible with oxidising materials.
	SureSelect dA-Tailing Master Mix	May react or be incompatible with oxidising materials.
	SureSelect Ligation Master Mix	May react or be incompatible with oxidising materials.
	SureSelect Herculase II Master Mix	May react or be incompatible with oxidising materials.
	XT2 Primer Mix	May react or be incompatible with oxidising materials.
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,

Section 10. Stability and reactivity

SureSelect Pre-capture
Indexed Adaptor Set
A01-H12

hazardous decomposition products should not be produced.

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

Section 11. Toxicological information**Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect End Repair Enzyme Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect dA-Tailing Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect Ligation Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-

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	-
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	-

Section 11. Toxicological information

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	<input checked="" type="checkbox"/> 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.

Potential acute health effects

Eye contact	<input checked="" type="checkbox"/> 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.

Inhalation	<input checked="" type="checkbox"/> 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.

Section 11. Toxicological information

	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.
Skin contact	: <input checked="" type="checkbox"/> 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.
Ingestion	: <input checked="" type="checkbox"/> 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: <input checked="" type="checkbox"/> 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.
Inhalation	: <input checked="" type="checkbox"/> 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	No specific data.

Section 11. Toxicological information

	Indexed Adaptor Set A01-H12	
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.
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.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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.

Section 11. Toxicological information

Carcinogenicity	: <input checked="" type="checkbox"/> 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.
Mutagenicity	: <input checked="" type="checkbox"/> 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.
Teratogenicity	: <input checked="" type="checkbox"/> 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.
Developmental effects	: <input checked="" type="checkbox"/> 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

Fertility effects	: SureSelect End Repair Enzyme Mix SureSelect End Repair Nucleotide Mix SureSelect dA-Tailing Master Mix SureSelect Ligation Master Mix SureSelect Herculase II Master Mix XT2 Primer Mix SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect End Repair Enzyme Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
SureSelect dA-Tailing Master Mix Glycerol Polyethylene glycol	Acute LC50 54000 mg/l Fresh water Acute LC50 >1000000 µg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Salmo salar - Parr	96 hours 96 hours
SureSelect Ligation Master Mix Glycerol Polyethylene glycol	Acute LC50 54000 mg/l Fresh water Acute LC50 >1000000 µg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Salmo salar - Parr	96 hours 96 hours

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	93 % - 30 days	-	-

Section 12. Ecological information

	Biodegradability - Closed Bottle Test			
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Bioaccumulative potential

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

Mobility in soil

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

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

Section 13. Disposal considerations

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

[Standard Uniform Schedule of Medicine and Poisons](#)

Not regulated.

[Model Work Health and Safety Regulations - Scheduled Substances](#)

No listed substance

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[Montreal Protocol \(Annexes A, B, C, E\)](#)

Not listed.

[Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

[Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

[Inventory list](#)

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: <input checked="" type="checkbox"/> Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: <input checked="" type="checkbox"/> All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: <input checked="" type="checkbox"/> All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Any other relevant information

[History](#)

Date of issue/Date of revision : 19/01/2018

Date of previous issue : 14/08/2015.

Version : 2

[Key to abbreviations](#)

ADG = Australian Dangerous Goods
 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)
 NOHSC = National Occupational Health and Safety Commission

Section 16. Any other relevant information

SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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