SAFETY DATA SHEET



SureSelect XT HS2 Library Preparation Kit for ILM (Pre PCR), 96 Rxn, Part Number 5500-0147

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

1.1 Product identifier

Product name	: SureSelect XT HS2 Library Preparation Kit for ILM (Pre PCR), 96 Rxn, Part Number 5500-0147
Part no. (chemical kit)	: 5500-0147
Part no.	: End Repair-A Tailing 5190-6435 Enzyme Mix
	End Repair-A Tailing 5190-6436 Buffer
	T4 DNA Ligase 5190-6437
	Ligation Buffer 5190-6438
	SureSelect XT HS2 5191-6684 Adaptor Oligo Mix
	Herculase II Fusion DNA 5600-3761 Polymerase
	5X Herculase II Reaction 5191-6681 Buffer with dNTPs

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

Material uses	: Analytical reagent. For Research Use Only. Not for use in diag	nostic procedures.
	End Repair-A Tailing Enzyme Mix	1 x 0.512 ml (96 reactions)
	End Repair-A Tailing Buffer	1 x 2.048 ml (96 reactions)
	T4 DNA Ligase	1 x 0.256 ml (96 reactions)
	Ligation Buffer	1 x 2.944 ml (96 reactions)
	SureSelect XT HS2 Adaptor Oligo Mix	0.7 ml (96 reactions)
	Herculase II Fusion DNA Polymerase	1 x 0.14 ml (96 reactions)
	5X Herculase II Reaction Buffer with dNTPs	1 x 1.5 ml (96 reactions)

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000 e-mail address of person : pdl-msds_author@agilent.com responsible for this SDS

1.4 Emergency telephone number

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

SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Product definition : End Repair-A Tailing Mixture Enzyme Mix End Repair-A Tailing Mixture Buffer T4 DNA Ligase Mixture Ligation Buffer Mixture SureSelect XT HS2 Mixture

SECTION 2: Hazards identification

	Adaptor Oligo Mix Herculase II Fusion DNA Polymerase	Mixture
	5X Herculase II Reaction Buffer with dNTPs	Mixture
Classification according to	Regulation (EC) No. 1272/2	2008 [CLP/GHS]
Not classified.		
Ingredients of unknown toxicity	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	T4 DNA Ligase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Ligation Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Herculase II Fusion DNA Polymerase 5X Herculase II Reaction	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient(s) of
	Buffer with dNTPs	unknown acute dermal toxicity: 10 - 30%
		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%
Ingredients of unknown ecotoxicity	: 5X Herculase II Reaction Buffer with dNTPs	Contains 5.3% of components with unknown hazards to the aquatic environment
See Section 16 for the full to	vt of the U statements dealer	

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	End Poppir A Tailing	No signal word.
Signal word	: End Repair-A Tailing Enzyme Mix	
	End Repair-A Tailing Buffer	No signal word.
	T4 DNA Ligase	No signal word.
	Ligation Buffer	No signal word.
	SureSelect XT HS2 Adaptor Oligo Mix	No signal word.
	Herculase II Fusion DNA Polymerase	No signal word.
	5X Herculase II Reaction Buffer with dNTPs	No signal word.
Hazard statements	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	SureSelect XT HS2 Adaptor Oligo Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer with dNTPs	No known significant effects or critical hazards.
Precautionary statements		

SECTION 2: Hazards identification

Prevention	: End Repair-A Tailing Enzyme Mix	Not applicable.	
	End Repair-A Tailing Buffer	Not applicable.	
	T4 DNA Ligase	Not applicable.	
	Ligation Buffer	Not applicable.	
	SureSelect XT HS2	Not applicable.	
	Adaptor Oligo Mix		
	Herculase II Fusion DN Polymerase	A Not applicable.	
	5X Herculase II Reactio Buffer with dNTPs	n Not applicable.	
Response	: End Repair-A Tailing Enzyme Mix	Not applicable.	
	End Repair-A Tailing Buffer	Not applicable.	
	T4 DNA Ligase	Not applicable.	
	Ligation Buffer	Not applicable.	
	SureSelect XT HS2	Not applicable.	
	Adaptor Oligo Mix		
	Herculase II Fusion DN Polymerase	A Not applicable.	
	5X Herculase II Reactio Buffer with dNTPs	n Not applicable.	
Storage	: End Repair-A Tailing Enzyme Mix	Not applicable.	
	End Repair-A Tailing Buffer	Not applicable.	
	T4 DNA Ligase	Not applicable.	
	Ligation Buffer	Not applicable.	
	SureSelect XT HS2	Not applicable.	
	Adaptor Oligo Mix Herculase II Fusion DN	A Not applicable.	
	Polymerase 5X Herculase II Reactio Buffer with dNTPs	n Not applicable.	
Disposal		Not applicable	
Disposal	: End Repair-A Tailing Enzyme Mix	Not applicable.	
	End Repair-A Tailing Buffer	Not applicable.	
	T4 DNA Ligase	Not applicable.	
	Ligation Buffer	Not applicable.	
	SureSelect XT HS2 Adaptor Oligo Mix	Not applicable.	
	Herculase II Fusion DN Polymerase		
	5X Herculase II Reactio Buffer with dNTPs	n Not applicable.	
Hazardous ingredients	: 5X Herculase II Reactio Buffer with dNTPs	n Not applicable.	
Supplemental label elements	: End Repair-A Tailing Enzyme Mix	Not applicable.	
-	End Repair-A Tailing Buffer	Not applicable.	
	T4 DNA Ligase	Not applicable.	
	Ligation Buffer	Not applicable.	
	SureSelect XT HS2	Not applicable.	
	Adaptor Oligo Mix		
	Herculase II Fusion DN Polymerase		
	5X Herculase II Reaction	· ·	1
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SECTION 2: Hazards identification

	Buffer with dNTPs	
Annex XVII - Restrictions : on the manufacture,	End Repair-A Tailing Enzyme Mix	Not applicable.
placing on the market and use of certain	End Repair-A Tailing Buffer	Not applicable.
dangerous substances,	T4 DNA Ligase	Not applicable.
mixtures and articles	Ligation Buffer	Not applicable.
	SureSelect XT HS2 Adaptor Oligo Mix	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer with dNTPs	Not applicable.
Special packaging requirem		
		Natanniashla
Tactile warning of : danger	End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	SureSelect XT HS2 Adaptor Oligo Mix	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer with dNTPs	Not applicable.
2.3 Other hazards		
Product meets the :	End Repair-A Tailing	This mixture does not contain any substances that are
criteria for PBT or vPvB	Enzyme Mix	assessed to be a PBT or a vPvB.
according to	End Repair-A Tailing	This mixture does not contain any substances that are
Regulation (EC) No.	Buffer	assessed to be a PBT or a vPvB.
1907/2006, Annex XIII	T4 DNA Ligase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Ligation Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect XT HS2 Adaptor Oligo Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		This mixture does not contain any substances that are
	Polymerase	assessed to be a PBT or a vPvB.
	5	This mixture does not contain any substances that are
	Buffer with dNTPs	assessed to be a PBT or a vPvB.
Other hazards which do : not result in	End Repair-A Tailing Enzyme Mix	None known.
classification	End Repair-A Tailing Buffer	None known.
	T4 DNA Ligase	None known.
	Ligation Buffer	None known.
	SureSelect XT HS2 Adaptor Oligo Mix	None known.
	Herculase II Fusion DNA	None known.
	Polymerase 5X Herculase II Reaction Buffer with dNTPs	None known.

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SECTION 3: Composition/information on ingredients : End Repair-A Tailing Enzyme Mix 3.1 Substances Mixture End Repair-A Tailing Buffer Mixture T4 DNA Ligase Mixture Ligation Buffer Mixture SureSelect XT HS2 Adaptor Oligo Mixture Mix Herculase II Fusion DNA Mixture Polymerase 5X Herculase II Reaction Buffer Mixture with dNTPs

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
End Repair-A Tailing Enzyme Mix Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
T4 DNA Ligase Glycerol	REACH #: Annex V	≥50 - ≤75	Not classified.	[2]
Giycerol	EC: 200-289-5 CAS: 56-81-5	250 - 275	Not classified.	[~]
Ligation Buffer				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Herculase II Fusion DNA Polymerase				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
5X Herculase II Reaction Buffer with dNTPs				
Trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Ammonium sulphate	EC: 231-984-1 CAS: 7783-20-2	≤3	Eye Irrit. 2, H319	[1]
Hexadecan-1-ol, ethoxylated	EC: 500-014-1 CAS: 9004-95-9	<2.5	Aquatic Chronic 2, H411	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid	measures	
Eye contact	: End Repair-A Tailing Enzyme Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	End Repair-A Tailing Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	T4 DNA Ligase	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
	Ligation Buffer	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect XT HS2 Adaptor Oligo Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Herculase II Fusion DNA Polymerase	
	5X Herculase II Reaction Buffer with dNTPs	
Inhalation	: End Repair-A Tailing Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	End Repair-A Tailing Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed
		person may need to be kept under medical surveillance for
	T4 DNA Ligase	48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
	Ligation Buffer	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
	SureSelect XT HS2 Adaptor Oligo Mix	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Herculase II Fusion DNA Polymerase	
	5X Herculase II Reaction Buffer with dNTPs	
Skin contact	: End Repair-A Tailing Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	End Repair-A Tailing Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	T4 DNA Ligase	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	Ligation Buffer	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT HS2	Flush contaminated skin with plenty of water. Remove
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SECTION 4: First aid measures

SECTION 4. First and measures				
	Adaptor Oligo Mix	contaminated clothing and shoes. Get medical attention if symptoms occur.		
	Herculase II Fusion DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.		
	5X Herculase II Reaction Buffer with dNTPs	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.		
Ingestion	: End Repair-A Tailing Enzyme Mix	Wash out mouth with water. 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		
	End Repair-A Tailing Buffer	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.		
	T4 DNA Ligase	Wash out mouth with water. 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		
	Ligation Buffer	symptoms occur. Wash out mouth with water. 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		
	SureSelect XT HS2 Adaptor Oligo Mix	symptoms occur. Wash out mouth with water. 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		
	Herculase II Fusion DNA Polymerase	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.		
	5X Herculase II Reaction Buffer with dNTPs	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.		
Protection of first-aiders	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without avitable training.		
	Ligation Buffer	without suitable training. No action shall be taken involving any personal risk or without suitable training.		
	SureSelect XT HS2 Adaptor Oligo Mix	without suitable training. No action shall be taken involving any personal risk or without suitable training.		
	Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.		

4.2 Most important symptoms and effects, both acute and delayed <u>Potential acute health effects</u>

SECTION 4: First aid measures

SECTION 4: First al	d measures	
Eye contact	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	SureSelect XT HS2 Adaptor Oligo Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA	No known significant effects or critical hazards.
	Polymerase 5X Herculase II Reaction Buffer with dNTPs	No known significant effects or critical hazards.
Inhalation	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	SureSelect XT HS2 Adaptor Oligo Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer with dNTPs	No known significant effects or critical hazards.
Skin contact	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	SureSelect XT HS2 Adaptor Oligo Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer with dNTPs	No known significant effects or critical hazards.
Ingestion	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	SureSelect XT HS2 Adaptor Oligo Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer with dNTPs	No known significant effects or critical hazards.
Over-exposure signs/sym	ptoms	
Eye contact	End Repair-A Tailing	No specific data.
	End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	No specific data.
	SureSelect XT HS2 Adaptor Oligo Mix	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer with dNTPs	No specific data.

SECTION 4: First aid measures

Inhalation	: End Repair-A Tailing No specific data. Enzyme Mix
	End Repair-A Tailing No specific data. Buffer
	T4 DNA Ligase No specific data.
	Ligation Buffer No specific data.
	SureSelect XT HS2 No specific data. Adaptor Oligo Mix
	Herculase II Fusion DNA No specific data. Polymerase
	5X Herculase II Reaction No specific data. Buffer with dNTPs
Skin contact	: End Repair-A Tailing No specific data. Enzyme Mix
	End Repair-A Tailing No specific data. Buffer
	T4 DNA Ligase No specific data.
	Ligation Buffer No specific data.
	SureSelect XT HS2 No specific data. Adaptor Oligo Mix
	Herculase II Fusion DNA No specific data. Polymerase
	5X Herculase II Reaction No specific data. Buffer with dNTPs
Ingestion	: End Repair-A Tailing No specific data. Enzyme Mix
	End Repair-A Tailing No specific data. Buffer
	T4 DNA Ligase No specific data.
	Ligation Buffer No specific data. SureSelect XT HS2 No specific data.
	Adaptor Oligo Mix
	Herculase II Fusion DNA No specific data. Polymerase
	5X Herculase II Reaction No specific data. Buffer with dNTPs
4.3 Indication of any imme	ediate medical attention and special treatment needed
Notes to physician	: End Repair-A Tailing Treat symptomatically. Contact poison treatment specialis
	Enzyme Mix immediately if large quantities have been ingested or inhale
	End Repair-A Tailing In case of inhalation of decomposition products in a fire, Buffer symptoms may be delayed. The exposed person may nee
	to be kept under medical surveillance for 48 hours.
	T4 DNA Ligase Treat symptomatically. Contact poison treatment specialis immediately if large quantities have been ingested or inhale
	Ligation Buffer Treat symptomatically. Contact poison treatment specialis immediately if large quantities have been ingested or inhale
	SureSelect XT HS2 Treat symptomatically. Contact poison treatment specialis
	Adaptor Oligo Mix immediately if large quantities have been ingested or inhale
	Herculase II Fusion DNA Treat symptomatically. Contact poison treatment specialis
	Polymerase immediately if large quantities have been ingested or inhale
	5X Herculase II Reaction In case of inhalation of decomposition products in a fire, Buffer with dNTPs symptoms may be delayed. The exposed person may nee
	to be kept under medical surveillance for 48 hours.
Specific treatments	: End Repair-A Tailing No specific treatment. Enzyme Mix
	End Repair-A Tailing No specific treatment. Buffer
	T4 DNA Ligase No specific treatment.
	Ligation BufferNo specific treatment.SureSelect XT HS2No specific treatment.
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SECTION 4: First aid measures

Adaptor Oligo Mix Herculase II Fusion DNA No specific treatment. Polymerase 5X Herculase II Reaction No specific treatment. Buffer with dNTPs

SECTION 5: Firefighting measures

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5.1 Extinguishing media		
Suitable extinguishing media	: End Repair-A Tailing Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
	End Repair-A Tailing Buffer	Use an extinguishing agent suitable for the surrounding fire.
	T4 DNA Ligase Ligation Buffer SureSelect XT HS2 Adaptor Oligo Mix	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
		Use an extinguishing agent suitable for the surrounding fire.
	5X Herculase II Reaction Buffer with dNTPs	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: End Repair-A Tailing Enzyme Mix	None known.
	End Repair-A Tailing Buffer	None known.
	T4 DNA Ligase	None known.
	Ligation Buffer	None known.
	SureSelect XT HS2	None known.
	Adaptor Oligo Mix	
	Herculase II Fusion DNA Polymerase	None known.
	5X Herculase II Reaction Buffer with dNTPs	None known.
5.2 Special hazards arising	from the substance or mixt	ure
Hazards from the	: End Repair-A Tailing	In a fire or if heated, a pressure increase will occur and the
substance or mixture	Enzyme Mix	container may burst.
	End Repair-A Tailing	In a fire or if heated, a pressure increase will occur and the
	Buffer	container may burst.
	T4 DNA Ligase	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ligation Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT HS2 Adaptor Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Herculase II Fusion DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
	5X Herculase II	In a fire or if heated, a pressure increase will occur and the
	Reaction Buffer with dNTPs	container may burst.
Hazardous combustion products	: End Repair-A Tailing Enzyme Mix	Decomposition products may include the following materials:
-	-	carbon dioxide
		carbon monoxide
	End Repair-A Tailing Buffer	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		nitrogen oxides
		halogenated compounds
		- •

SECTION 5: Firefighting measures

T4 DNA Ligase	metal oxide/oxides Decomposition products may include the following materials:
	carbon dioxide
Ligation Buffer	carbon monoxide Decomposition products may include the following materials: carbon dioxide
SureSelect XT HS2	carbon monoxide No specific data.
Adaptor Oligo Mix Herculase II Fusion DNA Polymerase	Decomposition products may include the following materials:
T olymerase	carbon dioxide
5X Herculase II Reaction Buffer with	carbon monoxide Decomposition products may include the following materials:
unit s	carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
	phosphorus oxides metal oxide/oxides
End Repair-A Tailing	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
End Repair-A Tailing Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
T4 DNA Ligase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
Ligation Buffer	taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
SureSelect XT HS2 Adaptor Oligo Mix	taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Herculase II Fusion DNA Polymerase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
5X Herculase II Reaction Buffer with dNTPs	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
: End Repair-A Tailing Enzyme Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
End Repair-A Tailing Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
T4 DNA Ligase	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
	Adaptor Oligo Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs : End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer SureSelect XT HS2 Adaptor Oligo Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs : End Repair-A Tailing Enzyme Mix End Repair-A Tailing

SECTION 5: Firefighting measures

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	basic level of protection for chemical incidents.
Ligation Buffer	Fire-fighters should wear appropriate protective equipment
	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)
	conforming to European standard EN 469 will provide a
	basic level of protection for chemical incidents.
SureSelect XT HS2	Fire-fighters should wear appropriate protective equipment
Adaptor Oligo Mix	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode. Clothing for
	fire-fighters (including helmets, protective boots and gloves)
	conforming to European standard EN 469 will provide a
Herculase II Fusion DNA	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment
Polymerase	and self-contained breathing apparatus (SCBA) with a full
1 olymerase	face-piece operated in positive pressure mode. Clothing for
	fire-fighters (including helmets, protective boots and gloves)
	conforming to European standard EN 469 will provide a
	basic level of protection for chemical incidents.
5X Herculase II	Fire-fighters should wear appropriate protective equipment
Reaction Buffer with	and self-contained breathing apparatus (SCBA) with a full
dNTPs	face-piece operated in positive pressure mode. Clothing for
	fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
	basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: End Repair-A Tailing Enzyme Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	End Repair-A Tailing Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	T4 DNA Ligase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Ligation Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect XT HS2 Adaptor Oligo Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	5X Herculase II Reaction Buffer with dNTPs	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

SECTION 6: Accidental release measures

		appropriate personal protective equipment.
For emergency responders	: End Repair-A Tailing Enzyme Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
	End Repair-A Tailing Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	T4 DNA Ligase	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-
	Ligation Buffer	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-
	SureSelect XT HS2 Adaptor Oligo Mix	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-
	Herculase II Fusion DNA Polymerase	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".
	5X Herculase II Reaction Buffer with dNTPs	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
6.2 Environmental precautions	: End Repair-A Tailing Enzyme Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	End Repair-A Tailing Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	T4 DNA Ligase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Ligation Buffer	(sewers, waterways, soil or air). 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
	SureSelect XT HS2 Adaptor Oligo Mix	(sewers, waterways, soil or air). 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
	Herculase II Fusion DNA Polymerase	(sewers, waterways, soil or air). 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 (source waterways, soil or air)
	5X Herculase II Reaction Buffer with dNTPs	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

Methods for cleaning up	: End Repair-A Tailing Enzyme Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	End Repair-A Tailing Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	T4 DNA Ligase	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Ligation Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureSelect XT HS2 Adaptor Oligo Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Herculase II Fusion DNA Polymerase	•
	5X Herculase II Reaction Buffer with dNTPs	
6.4 Reference to other sections	: See Section 1 for emerge See Section 8 for information	ency contact information. ation on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Drotostivo mosovros	- End Densir A Tailing	Dut an appropriate personal protective equipment (see
Protective measures	: End Repair-A Tailing	Put on appropriate personal protective equipment (see
	Enzyme Mix	Section 8).
	End Repair-A Tailing	Put on appropriate personal protective equipment (see
	Buffer	Section 8).
	T4 DNA Ligase	Put on appropriate personal protective equipment (see
	C C	Section 8).
	Ligation Buffer	Put on appropriate personal protective equipment (see
	5	Section 8).
	SureSelect XT HS2	Put on appropriate personal protective equipment (see
	Adaptor Oligo Mix	Section 8).
	Herculase II Fusion DNA	Put on appropriate personal protective equipment (see
	Polymerase	Section 8).
	5X Herculase II Reaction	Put on appropriate personal protective equipment (see
	Buffer with dNTPs	Section 8).

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SECTION 7: Handling and storage

020110111111111	g and otorago	
Advice on general occupational hygiene	: End Repair-A Tailing Enzyme Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	End Repair-A Tailing Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	T4 DNA Ligase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Ligation Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect XT HS2 Adaptor Oligo Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Herculase II Fusion DNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	5X Herculase II Reaction Buffer with dNTPs	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe stora	ge, including any incompa	tibilities

7.2 Conditions for safe storage, including any incompatibilities

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

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SECTION 7: Handling	g and storage	
	T4 DNA Ligase	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
	Ligation Buffer	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. 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 XT HS2 Adaptor Oligo 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.
	Herculase II Fusion DNA Polymerase	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.
	5X Herculase II Reaction Buffer with dNTPs	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.
7.3 Specific end use(s) Recommendations	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer SureSelect XT HS2 Adaptor Oligo Mix	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

SECTION 7: Handling and storage

	Herculase II Fusion DNA Polymerase	Industrial applications, Professional applications.
	5X Herculase II Reaction Buffer with dNTPs	Industrial applications, Professional applications.
Industrial sector specific solutions	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	SureSelect XT HS2 Adaptor Oligo Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer with dNTPs	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingred	dient name	Exposure limit values
End Repair-A Tailing Enz Glycerol	yme Mix	NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m³ 8 hours. Form: mist
T4 DNA Ligase Glycerol		NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m³ 8 hours. Form: mist
Ligation Buffer Glycerol		NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m³ 8 hours. Form: mist
Herculase II Fusion DNA Glycerol	Polymerase	NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m³ 8 hours. Form: mist
Recommended monitoring procedures	atmosphere or bio the ventilation or of protective equipm following: Europe assessment of ex values and mease atmospheres - Go exposure to chem atmospheres - Go	ntains ingredients with exposure limits, personal, workplace ological monitoring may be required to determine the effectiveness of other control measures and/or the necessity to use respiratory nent. Reference should be made to monitoring standards, such as the ean Standard EN 689 (Workplace atmospheres - Guidance for the sposure by inhalation to chemical agents for comparison with limit urement strategy) European Standard EN 14042 (Workplace uide for the application and use of procedures for the assessment of nical and biological agents) European Standard EN 482 (Workplace eneral requirements for the performance of procedures for the

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
5X Herculase II Reaction Buffer with dNTPs					
Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	29 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	83.3 mg/kg bw/day		Systemic

measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

SECTION 8: Exposure controls/personal protection

		porconal prote			
	DNEL	Long term Inhalation	117.5 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/ kg bw/day	Workers	Systemic
Ammonium sulphate	DNEL	Long term Inhalation	1.667 mg/ m ³	General population	Systemic
	DNEL	Long term Oral	6.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	11.167 mg/ m ³	Workers	Systemic
	DNEL	Long term Dermal	12.8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	42.667 mg/ kg bw/day	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	ure	<u>'S</u>
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance		
Physical state	: End Repair-A Tailing Liq Enzyme Mix	uid.
		uid.
	5X Herculase II Reaction Liq Buffer with dNTPs	uid.
Colour	: End Repair-A Tailing No Enzyme Mix	t available.
		t available.
	T4 DNA Ligase No	t available.
	5	t available.
		t available.
	Adaptor Oligo Mix Herculase II Fusion DNA No Polymerase	t available.
		t available.
Odour	: End Repair-A Tailing No Enzyme Mix	t available.
	Buffer	t available.
	0	t available.
	0	t available.
	Adaptor Oligo Mix	t available.
		t available.
		t available.
Odour threshold	: End Repair-A Tailing No Enzyme Mix	t available.
	Buffer	t available.
		t available.
	0	t available.
	Adaptor Oligo Mix	t available.
	Herculase II Fusion DNA No Polymerase	t available.
	5X Herculase II Reaction No Buffer with dNTPs	t available.
Melting point/freezing point	: End Repair-A Tailing No Enzyme Mix	t available.
-	End Repair-A Tailing 0°0 Buffer	C
	5	t available.
	0	t available.
	SureSelect XT HS2 0°C	;
	Adaptor Oligo Mix Herculase II Fusion DNA No	t available.

SECTION 9: Physical and chemical properties

=			-				
		Polymerase 5X Herculase II Reac Buffer with dNTPs	tion	Not	available.		
Initial boiling point and boiling range	:	End Repair-A Tailing Enzyme Mix		Not	available.		
boning range		End Repair-A Tailing Buffer		100)°C (212°F)	
		T4 DNA Ligase		Not	available.		
		Ligation Buffer			available.		
		SureSelect XT HS2 Adaptor Oligo Mix)°C (212°F		
		Herculase II Fusion D Polymerase	NA	Not	available.		
		5X Herculase II Reac Buffer with dNTPs	tion	Not	available.		
Flammability (solid, gas)	:	End Repair-A Tailing Enzyme Mix		Not	applicable	9.	
		End Repair-A Tailing Buffer		Not	applicable	9.	
		T4 DNA Ligase		Not	applicable	Э.	
		Ligation Buffer		Not	applicable	э.	
		SureSelect XT HS2 Adaptor Oligo Mix		Not	applicable	9.	
		Herculase II Fusion D Polymerase	NA	Not	applicable	9.	
		5X Herculase II Reac Buffer with dNTPs	tion	Not	applicable	Э.	
Upper/lower flammability or explosive limits	:	End Repair-A Tailing Enzyme Mix		Not	available.		
		End Repair-A Tailing Buffer		Not	available.		
		T4 DNA Ligase		Not	available.		
		Ligation Buffer			available.		
		SureSelect XT HS2 Adaptor Oligo Mix		Not	available.		
		Herculase II Fusion D Polymerase	NA	Not	available.		
		5X Herculase II Reac Buffer with dNTPs	tion	Not	available.		
Flash point	÷				Closed cu	ıp	
		Ingredient name	°C		°F	Method	°C
		End Repair-A Tailing Enzyme Mix					
		(R*.R*)	>110)	>230		

	•			· · ·			
Ingredient name	°C	°F	Method	°C	°F	Method	
End Repair-A Tailing Enzyme Mix							
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230					
Glycerol			Pensky-Martens	177	350.6		
End Repair-A Tailing Buffer							
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230					
T4 DNA Ligase							
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230					
Glycerol			Pensky-Martens	177	350.6		

Open cup

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ECTION 9: Phy	sical and chemic	al propert	ies	•		1		
	Ligation Buffer							
	(R*,R*) -1,4-Dimercaptobuta 2,3-diol	>110 ne-	>230					
	Polyethylene glycol	171 to 235	339.8 to 455			199 to 238	390.2 to 460.4	
	SureSelect XT HS2 Adaptor Oligo Mix							
	Edetic acid	>100	>212	DIN 51	758			
	Herculase II Fusion DNA Polymerase							
	Edetic acid	>100	>212	DIN 51	758			
	(R*,R*) -1,4-Dimercaptobuta 2,3-diol	>110 ne-	>230					
Auto-ignition	: Ingredient name	e	°C		°F		Method	
temperature	End Repair-A Tailin	g Enzyme Mix						
	Glycerol	Glycerol			698			
	T4 DNA Ligase							
	Glycerol	Glycerol			698			
	Ligation Buffer							
	Polyethylene glycol				360 680			
	Glycerol		370		698			
	SureSelect XT HS2	Adaptor Oligo M	ix					
	Edetic acid		>400		>752	VE	01 2263	
	Herculase II Fusion	DNA Polymeras	e					
	Glycerol		370		698			
	Edetic acid		>400		>752	VE	01 2263	
Decomposition temperature	: End Repair-A Tai Enzyme Mix End Repair-A Tai	-	available available					
	Buffer	Buffer						
	Ligation Buffer	Ligation Buffer No SureSelect XT HS2 No		lot available. lot available. lot available.				
	Herculase II Fusi Polymerase	on DNA Not	Not available.					
	5X Herculase II F Buffer with dNTP		available).				
рН	: End Repair-A Tai Enzyme Mix	iling 6.5						
	End Repair-A Tai Buffer	iling 8						
	T4 DNA Ligase	7.5						
	Ligation Buffer SureSelect XT H							

Adaptor Oligo Mix

SECTION 9: Physical and chemical properties

	Herculase II Fusion I Polymerase 5X Herculase II Read						
	Buffer with dNTPs						
Viscosity	: End Repair-A Tailing Enzyme Mix	Not	available.				
	End Repair-A Tailing Buffer	Not	available.				
	T4 DNA Ligase		available.				
	Ligation Buffer SureSelect XT HS2		available. available.				
	Adaptor Oligo Mix Herculase II Fusion I Polymerase		available.				
	5X Herculase II Read Buffer with dNTPs	ction Not	available.				
Solubility(ies)	End Repair-A Tailing Enzyme Mix	Eas wat	•	in the followin	ig materia	ls: cold w	ater and hot
	End Repair-A Tailing	Eas	ily soluble	in the followin	ig materia	ls: cold w	ater and hot
	Buffer T4 DNA Ligase		ily soluble	in the followin	ig materia	ls: cold w	ater and hot
	Ligation Buffer		ily soluble	in the followin	ig materia	ls: cold w	ater and hot
	SureSelect XT HS2		ily soluble	in the followin	ig materia	ls: cold w	ater and hot
	Adaptor Oligo Mix Herculase II Fusion I	wat DNA Eas		in the followin	ig materia	ls: cold w	ater and hot
	Polymerase 5X Herculase II Read	wate tion Eas		in the followin	ıg materia	ls: cold w	ater and hot
Partition coefficient: n-	Buffer with dNTPs	wate		_			
octanol/water	End Repair-A Tailing Enzyme Mix End Repair-A Tailing		applicable applicable				
	Buffer T4 DNA Ligase	Not	applicable	9.			
	Ligation Buffer SureSelect XT HS2	Not	applicable	e.			
	Adaptor Oligo Mix						
	Herculase II Fusion I Polymerase		applicable	e.			
	5X Herculase II Read Buffer with dNTPs	ction Not	applicable	9.			
Vapour pressure	:	Vapour	Pressur	e at 20°C	Vap	our press	sure at 50°C
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	End Repair-A Tailing Enzyme Mix						
	Water	23.8	3.2		92.258	12.3	
	Adenosine 5'- (tetrahydrogen triphosphate), disodium salt	<0.00075006	<0.0001		<0.00075006	<0.0001	
	End Repair-A Tailing Buffer						
	Water	23.8	3.2		92.258	12.3	
	Adenosine 5'- (tetrahydrogen triphosphate), disodium salt	<0.00075006	<0.0001		<0.00075006	<0.0001	
			1				

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SECTION 9: Physical and chemical properties

SECTION 9: Physical and chemical properties							
	T4 DNA Ligase						
	Water	23.8	3.2	92	2.258	12.3	
	Glycerol	0.0000	75 0.00001	0.0	0025	0.00033	
	Ligation Buffer						
	Water	23.8	3.2	92	2.258	12.3	
	Glycerol	0.0000	75 0.00001	0.0	0025	0.00033	
	SureSelect XT HS2 Adaptor Oligo Mix						
	Water	23.8	3.2	92	2.258	12.3	
	2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.00002	27 0.0000036	0.0	000007501	0.000001	
	Herculase II Fusion DNA Polymerase						
	Water	23.8	3.2	92	2.258	12.3	
	Glycerol	0.00007	75 0.00001	0.0	0025	0.00033	
	5X Herculase II Reaction Buffer with dNTPs						
	Water	23.8	3.2	92	2.258	12.3	
	Sulfuric acid, magnesium salt, hydrate (1:1:7)	<0.1	<0.013				
Evaporation rate	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer SureSelect XT HS2 Adaptor Oligo Mix Herculase II Fusion D Polymerase 5X Herculase II Reac Buffer with dNTPs	N N NA	Not available. Not available. Not available. Not available. Not available. Not available. Not available.				
Relative density	: End Repair-A Tailing	Ν	Not available.				
	Enzyme Mix End Repair-A Tailing Buffer		Not available.				
	T4 DNA Ligase Ligation Buffer SureSelect XT HS2 Adaptor Oligo Mix	Ν	Not available. Not available. Not available.				
	Herculase II Fusion D Polymerase		Not available.				
	5X Herculase II Reac Buffer with dNTPs	tion N	lot available.				

SECTION 9: Physical and chemical properties

Vapour density	: End Repair-A Tailing Not available.	
	Enzyme Mix	
	End Repair-A Tailing Not available. Buffer	
	T4 DNA Ligase Not available.	
	Ligation Buffer Not available.	
	SureSelect XT HS2 Not available. Adaptor Oligo Mix	
	Herculase II Fusion DNA Not available. Polymerase	
	5X Herculase II Reaction Not available. Buffer with dNTPs	
Oxidising properties	: End Repair-A Tailing Not available. Enzyme Mix	
	End Repair-A Tailing Not available. Buffer	
	T4 DNA Ligase Not available.	
	Ligation Buffer Not available.	
	SureSelect XT HS2 Not available. Adaptor Oligo Mix	
	Herculase II Fusion DNA Not available. Polymerase	
	5X Herculase II Reaction Not available. Buffer with dNTPs	
Particle characteristics		
Median particle size	: End Repair-A Tailing Not applicable. Enzyme Mix	
	End Repair-A Tailing Not applicable. Buffer	
	T4 DNA Ligase Not applicable.	
	Ligation Buffer Not applicable.	
	SureSelect XT HS2 Not applicable. Adaptor Oligo Mix	
	Herculase II Fusion DNA Not applicable. Polymerase	
	5X Herculase II Reaction Not applicable. Buffer with dNTPs	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: End Repair-A Tailing Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
	End Repair-A Tailing Buffer	No specific test data related to reactivity available for this product or its ingredients.
	T4 DNA Ligase	No specific test data related to reactivity available for this product or its ingredients.
	Ligation Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT HS2 Adaptor Oligo Mix	No specific test data related to reactivity available for this product or its ingredients.
	Herculase II Fusion DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
	5X Herculase II Reaction Buffer with dNTPs	

SECTION 10: Stability and reactivity

SECTION 10: Stabil	ity and reactivity	
10.2 Chemical stability	: End Repair-A Tailing Enzyme Mix	The product is stable.
	End Repair-A Tailing Buffer	The product is stable.
	T4 DNA Ligase	The product is stable.
	Ligation Buffer	The product is stable.
	SureSelect XT HS2	The product may not be stable under certain conditions of
	Adaptor Oligo Mix	storage or use. See "Possibility of Hazardous Reactions" for further information.
	Herculase II Fusion DNA Polymerase	The product is stable.
	5X Herculase II Reaction Buffer with dNTPs	The product is stable.
10.3 Possibility of	: End Repair-A Tailing	Under normal conditions of storage and use, hazardous
hazardous reactions	Enzyme Mix End Repair-A Tailing	reactions will not occur. Under normal conditions of storage and use, hazardous
	Buffer	reactions will not occur.
	T4 DNA Ligase	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ligation Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect XT HS2	Under normal conditions of storage and use, hazardous reactions will not occur.
	Adaptor Oligo Mix	
	Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
	5X Herculase II Reaction	Under normal conditions of storage and use, hazardous
	Buffer with dNTPs	reactions will not occur.
10.4 Conditions to avoid	: End Repair-A Tailing	No specific data.
	Enzyme Mix End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	No specific data.
	SureSelect XT HS2 Adaptor Oligo Mix	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer with dNTPs	No specific data.
10.5 Incompatible materials	: End Repair-A Tailing Enzyme Mix	May react or be incompatible with oxidising materials.
materials	End Repair-A Tailing Buffer	May react or be incompatible with oxidising materials.
	T4 DNA Ligase	May react or be incompatible with oxidising materials.
	Ligation Buffer	May react or be incompatible with oxidising materials.
	SureSelect XT HS2 Adaptor Oligo Mix	May react or be incompatible with oxidising materials.
		May react or be incompatible with oxidising materials.
		May react or be incompatible with oxidising materials.

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: End Repair-A Tailing Enzyme Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	End Repair-A Tailing Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	T4 DNA Ligase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ligation Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT HS2 Adaptor Oligo Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Herculase II Fusion DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	5X Herculase II Reaction Buffer with dNTPs	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
5X Herculase II Reaction Buffer with dNTPs Ammonium sulphate Hexadecan-1-ol, ethoxylated	2840 2500	N/A N/A	N/A N/A	N/A N/A	N/A N/A

Irritation/Corrosion

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

Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ tox	<u>icity (single exposure)</u>
Not available.	
Specific target organ tox	<u>icity (repeated exposure)</u>

Not available.

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SECTION 11: Toxicological information

Aspiration hazard

Not available.		
Information on likely : routes of exposure	End Repair-A Tailing Enzyme Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	End Repair-A Tailing Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	T4 DNA Ligase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Ligation Buffer SureSelect XT HS2	Routes of entry anticipated: Oral, Dermal, Inhalation. Not available.
	Adaptor Oligo Mix Herculase II Fusion DNA	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Polymerase 5X Herculase II Reaction Buffer with dNTPs	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effect	<u>'S</u>	
Inhalation :	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer SureSelect XT HS2	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Adaptor Oligo Mix Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer with dNTPs	No known significant effects or critical hazards.
Ingestion :	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	SureSelect XT HS2 Adaptor Oligo Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer with dNTPs	No known significant effects or critical hazards.
Skin contact :	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer SureSelect XT HS2	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant chects of childar hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer with dNTPs	No known significant effects or critical hazards.
Eye contact :	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer SureSelect XT HS2	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant offerse or critical bezarde
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.

SECTION 11: Toxicological information

5X Herculase II Reaction No known significant effects or critical hazards. Buffer with dNTPs

		Builer with divings	
Symptoms related to the p	h	<u>/sical, chemical and toxic</u>	ological characteristics
Inhalation	:	End Repair-A Tailing Enzyme Mix	No specific data.
		End Repair-A Tailing Buffer	No specific data.
		T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.
		SureSelect XT HS2	No specific data.
		Adaptor Oligo Mix	·
		Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer with dNTPs	No specific data.
Ingestion	:	End Repair-A Tailing Enzyme Mix	No specific data.
		End Repair-A Tailing Buffer	No specific data.
		T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.
		SureSelect XT HS2	No specific data.
		Adaptor Oligo Mix Herculase II Fusion DNA	No specific data.
		Polymerase 5X Herculase II Reaction Buffer with dNTPs	No specific data.
Skin contact	:	End Repair-A Tailing Enzyme Mix	No specific data.
		End Repair-A Tailing Buffer	No specific data.
		T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.
		SureSelect XT HS2 Adaptor Oligo Mix	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer with dNTPs	No specific data.
Eye contact	:	End Repair-A Tailing Enzyme Mix	No specific data.
		End Repair-A Tailing Buffer	No specific data.
		T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.
		SureSelect XT HS2 Adaptor Oligo Mix	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer with dNTPs	No specific data.
Delayed and immediate of	60	ote as well as chronic offe	cts from short and long.

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

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	

SECTION 11: Toxicological information

	-		
Potential immediate effects	: Not a	available.	
Potential delayed effects	: Not a	available.	
Potential chronic health e	ffects		
General		Repair-A Tailing me Mix	No known significant effects or critical hazards.
		Repair-A Tailing	No known significant effects or critical hazards.
		NA Ligase	No known significant effects or critical hazards.
	Ligat	ion Buffer	No known significant effects or critical hazards.
		Select XT HS2	No known significant effects or critical hazards.
	Herc	otor Oligo Mix ulase II Fusion DNA	No known significant effects or critical hazards.
	5X H	merase lerculase II Reaction er with dNTPs	No known significant effects or critical hazards.
Carcinogenicity	: End	Repair-A Tailing me Mix	No known significant effects or critical hazards.
		Repair-A Tailing	No known significant effects or critical hazards.
		NA Ligase	No known significant effects or critical hazards.
		ion Buffer	No known significant effects or critical hazards.
		Select XT HS2 otor Oligo Mix	No known significant effects or critical hazards.
	Herc	ulase II Fusion DNA merase	No known significant effects or critical hazards.
	5X H	lerculase II Reaction er with dNTPs	No known significant effects or critical hazards.
Mutagenicity		Repair-A Tailing me Mix	No known significant effects or critical hazards.
	End Buffe	Repair-A Tailing er	No known significant effects or critical hazards.
		NA Ligase	No known significant effects or critical hazards.
		ion Buffer Select XT HS2	No known significant effects or critical hazards. No known significant effects or critical hazards.
		otor Oligo Mix	No known significant criccis of childan hazards.
		ulase II Fusion DNA merase	No known significant effects or critical hazards.
		lerculase II Reaction er with dNTPs	No known significant effects or critical hazards.
Reproductive toxicity		Repair-A Tailing me Mix	No known significant effects or critical hazards.
	End Buffe	Repair-A Tailing er	No known significant effects or critical hazards.
		NA Ligase	No known significant effects or critical hazards.
		ion Buffer Select XT HS2	No known significant effects or critical hazards. No known significant effects or critical hazards.
		otor Oligo Mix	
	Polyr	ulase II Fusion DNA merase	No known significant effects or critical hazards.
		lerculase II Reaction er with dNTPs	No known significant effects or critical hazards.
Other information	Enzy	Repair-A Tailing me Mix	Not available.
	Buffe		Adverse symptoms may include the following: May cause skin sensitisation.
		NA Ligase	Not available.
	•	ion Buffer Select XT HS2	Not available. Not available.
		otor Oligo Mix	

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SECTION 11: Toxicological information

Herculase II Fusion DNA Not available. Polymerase 5X Herculase II Reaction Not available. Buffer with dNTPs

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
5X Herculase II Reaction Buffer with dNTPs			
Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours
Ammonium sulphate	Chronic NOEC 7.5 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
5X Herculase II Reaction Buffer with dNTPs Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test		Readily - 28 days	30 mg/l		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
5X Herculase II Reaction Buffer with dNTPs Trometamol Ammonium sulphate Hexadecan-1-ol, ethoxylated	-		- - -		Readily Readily Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
5X Herculase II Reaction Buffer with dNTPs			
Trometamol Ammonium sulphate	-2.31 -5.1	-	low low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

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

Date of issue/Date of revision : 29/04/2022	Date of previous issue	: No previous validation	Version : 1	30/33
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SECTION 13: Disposal considerations

13.1 Waste treatment methods Product Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC. Packaging Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. **Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

Additional information

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

14.7 Transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

: Not available.

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Ingredient name		EC number		CAS number	Restriction
5X Herculase II Read	tion Buffer with				
dNTPs		231-984-1		7792 20 2	65
ammonium sulphate			NI . 4 P	7783-20-2	65
Label	: End Repair-A Ta Mix End Repair-A Ta T4 DNA Ligase Ligation Buffer SureSelect XT H Oligo Mix Herculase II Fus Polymerase 5X Herculase II Buffer with dNTF	ailing Buffer IS2 Adaptor ion DNA Reaction	Not applic Not applic Not applic Not applic Not applic Not applic	cable. cable. cable. cable. cable.	
ther EU regulations					
Ozone depleting subs	<u>tances (1005/2009/EU</u>)			
Not listed.					
Prior Informed Conser Not listed.	<u>nt (PIC) (649/2012/EU)</u>				
Persistent Organic Po Not listed.	<u>llutants</u>				
This product is not content nternational regulation Chemical Weapon Conv Not listed.	IS		emicals		
<u>Iontreal Protocol</u> Not listed.					
itockholm Convention Not listed.	on Persistent Organi	<u>c Pollutants</u>			
Rotterdam Convention Not listed.	on Prior Informed Co	<u>nsent (PIC)</u>			
INECE Aarhus Protoco Not listed.	on POPs and Heavy	<u>Metals</u>			
nventory list					
Australia	: Not determined.				
Canada	: Not determined.				
Canada China	Not determined.Not determined.				
China Europe	: Not determined. : Not determined.				
China	: Not determined.				
China Europe Japan New Zealand	 Not determined. Not determined. Japan inventor 	y (ISHL): Not			
China Europe Japan New Zealand Philippines	 Not determined. Not determined. Japan inventor Japan inventor Not determined. Not determined. 	y (ISHL): Not			
China Europe Japan New Zealand	 Not determined. Not determined. Japan inventor Japan inventor Not determined. 	y (ISHL): Not	determined		

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SECTION 15: Regulatory information

	5 ,
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.
15.2 Chemical safety assessment	 This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

5X Herculase II Reaction Buffer with dNTPs	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

5X Herculase II Reaction	Buffer with dNTPs	
Aquatic Chronic 2 Eye Irrit. 2 Skin Irrit. 2		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2
Date of issue/ Date of revision	: 29/04/2022	
Date of previous issue	: No previous validation	
Version	: 1	

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