SAFETY DATA SHEET



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

Section 1. Identification

Product identifier : 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 Enzyme Mix 5190-6435 End Repair-A Tailing Buffer 5190-6436

T4 DNA Ligase 5190-6437
Ligation Buffer 5190-6438
SureSelect XT HS2 Adaptor Oligo Mix 5191-6684
Herculase II Fusion DNA Polymerase 5600-3761
5X Herculase II Reaction Buffer with 5191-6681

dNTPs

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

Material uses : Analytical reagent.

For Research Use Only. Not for use in diagnostic procedures.

Find Repair-A Tailing Enzyme Mix

1 x 0.512 ml (96 reactions)

1 x 2.048 ml (96 reactions)

1 x 0.256 ml (96 reactions)

1 x 0.256 ml (96 reactions)

1 x 2.944 ml (96 reactions)

SureSelect XT HS2 Adaptor Oligo Mix
Herculase II Fusion DNA Polymerase
5X Herculase II Reaction Buffer with
0.7 ml (96 reactions)
1 x 0.14 ml (96 reactions)

 dNTPs

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

X Herculase II Reaction
Buffer with dNTPs

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

FX Herculase II Reaction Percentage of the mixture consisting of ingredient(s)

Buffer with dNTPs Percentage of the mixture consisting of ingredient(s)
of unknown hazards to the aquatic environment: 5.3%

GHS label elements

Hazard pictograms :

Herculase II Reaction
Buffer with dNTPs



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Section 2. Hazard(s) identification

Section 2. Hazard	· ·	
Signal word	: ⊭ nd Repair-A Tailing Enzyme Mix	No signal word.
	End Repair-A Tailing Buffer	No signal word.
	T4 DNA Ligase	No signal word.
	Ligation Buffer SureSelect XT HS2 Adaptor	No signal word. No signal word.
	Oligo Mix	•
	Herculase II Fusion DNA Polymerase	No signal word.
	5X Herculase II Reaction Buffer with dNTPs	WARNING
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	H319 - Causes serious eye irritation.
Precautionary statements	Duller With divir 5	
Prevention	: Fnd 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	Not applicable.
	Oligo Mix Herculase II Fusion DNA	Not applicable.
	Polymerase 5X Herculase II Reaction	D200 Wear eve or face protection
	Buffer with dNTPs	P280 - Wear eye or face protection.
Response	: ⊭ nd 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	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
		lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
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 Adaptor Oligo Mix	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction	Not applicable.
	Buffer with dNTPs	

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Section 2. Hazard(s) identification

Disposal : End Repair-A Tailing

> Enzyme Mix End Repair-A Tailing Buffer Not applicable. T4 DNA Ligase Not applicable. Ligation Buffer Not applicable.

Not applicable.

Not applicable. SureSelect XT HS2 Adaptor

Oligo Mix Herculase II Fusion DNA

Not applicable. Polymerase 5X Herculase II Reaction Not applicable.

Buffer with dNTPs

Supplemental label elements

Additional warning : End Repair-A Tailing Not applicable. Enzyme Mix phrases End Repair-A Tailing Buffer Not applicable. T4 DNA Ligase Not applicable.

Ligation Buffer Not applicable. Not applicable. SureSelect XT HS2 Adaptor

Oligo Mix Herculase II Fusion DNA Not applicable.

Polymerase 5X Herculase II Reaction Not applicable.

Buffer with dNTPs

Other hazards which do not result in classification

End Repair-A Tailing None known. **Enzyme Mix**

End Repair-A Tailing Buffer

None known. T4 DNA Ligase None known. Ligation Buffer None known. SureSelect XT HS2 Adaptor None known.

Oligo Mix

Herculase II Fusion DNA Polymerase

5X Herculase II Reaction None known.

Buffer with dNTPs

Section 3. Composition and ingredient information

Substance/mixture : End Repair-A Tailing Mixture **Enzyme Mix**

End Repair-A Tailing Buffer Mixture T4 DNA Ligase Mixture Ligation Buffer Mixture SureSelect XT HS2 Adaptor Mixture

Oligo Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

None known.

Mixture

Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
End Repair-A Tailing Enzyme Mix Glycerol	≥30 - ≤60	56-81-5
T4 DNA Ligase Glycerol	≥30 - ≤60	56-81-5
Ligation Buffer		

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Section 3. Composition and ingredient information

Polyethylene glycol Glycerol	≥10 - ≤30 ≥10 - ≤30	25322-68-3 56-81-5
Herculase II Fusion DNA Polymerase Glycerol	≥30 - ≤60	56-81-5
5X Herculase II Reaction Buffer with dNTPs Hexadecan-1-ol, ethoxylated	<3	9004-95-9

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	tirst aid	measures

Eye contact : End Repair-A Tailing Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

End Repair-A Tailing Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

T4 DNA Ligase Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Ligation Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

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

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

5X Herculase II Reaction

Buffer with dNTPs

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

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 Rem

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

T4 DNA Ligase Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Ligation Buffer Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

SureSelect XT HS2 Adaptor

Oligo Mix

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

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Herculase II Fusion DNA Polymerase

5X Herculase II Reaction Buffer with dNTPs

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

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

Skin contact

: 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 DNA Polymerase

5X Herculase II Reaction Buffer with dNTPs

: End Repair-A Tailing **Enzyme Mix**

End Repair-A Tailing Buffer

Ligation Buffer

T4 DNA Ligase

SureSelect XT HS2 Adaptor Oligo Mix

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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

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.

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. 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. 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. 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

Ingestion

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Herculase II Fusion DNA Polymerase

5X Herculase II Reaction Buffer with dNTPs

vomiting unless directed to do so by medical personnel. Get medical attention if 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. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

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 DNA
Polymerase
5X Herculase II Reaction
Buffer with dNTPs

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Causes serious eye irritation.

Inhalation

: 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 DNA
Polymerase
5X Herculase II Reaction
Buffer with dNTPs

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.

Skin contact

: 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 DNA
Polymerase

5X Herculase II Reaction

Buffer with dNTPs

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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Section 4. First		No known significant affects or critical bazards
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	No known significant effects or critical hazards.
	Oligo Mix	•
	Herculase II Fusion DNA	No known significant effects or critical hazards.
	Polymerase	•
	5X Herculase II Reaction	No known significant effects or critical hazards.
	Buffer with dNTPs	
Over-exposure signs/s		
Eye contact	: End Repair-A Tailing	No specific data.
	Enzyme Mix	No anacidia data
	End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase Ligation Buffer	No specific data. No specific data.
	SureSelect XT HS2 Adaptor	No specific data.
	Oligo Mix	No specific data.
	Herculase II Fusion DNA	No specific data.
	Polymerase	No specific data.
	5X Herculase II Reaction Buffer with dNTPs	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
Inhalation	: End Repair-A Tailing	No specific data.
	Enzyme Mix	no oposino data.
	End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	No specific data.
	SureSelect XT HS2 Adaptor	No specific data.
	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 Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	No specific data.
	SureSelect XT HS2 Adaptor	No specific data.
	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 Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	No specific data.
	SureSelect XT HS2 Adaptor	No specific data.
	Oligo Mix	No. 10 Control of the
	Herculase II Fusion DNA	No specific data.
	Polymerase	

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

Buffer with dNTPs

5X Herculase II Reaction

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No specific data.

Notes to physician	: End Repair-A Tailing	Treat symptomatically. Contact poison treatment
	Enzyme Mix	specialist immediately if large quantities have been
		ingested or inhaled.

End Repair-A Tailing Buffer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Treat symptomatically. Contact poison treatment T4 DNA Ligase

specialist immediately if large quantities have been

ingested or inhaled.

Ligation Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

SureSelect XT HS2 Adaptor

Oligo Mix

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Herculase II Fusion DNA

Polymerase

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

5X Herculase II Reaction Buffer with dNTPs

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. No specific treatment.

Specific treatments

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

No specific treatment. No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment.

Protection of first-aiders

: End Repair-A Tailing Enzyme Mix

End Repair-A Tailing Buffer

or without suitable training.

No action shall be taken involving any personal risk

or without suitable training.

T4 DNA Ligase No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk Ligation Buffer

or without suitable training.

SureSelect XT HS2 Adaptor

Oligo Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction Buffer with dNTPs

No action shall be taken involving any personal risk

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 suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

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Section 5. Firefigh	nting measures	
Suitable extinguishing media	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the
	T4 DNA Ligase	surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
	Ligation Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect XT HS2 Adaptor Oligo Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	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.
Unsuitable extinguishing media	: End Repair-A Tailing Enzyme Mix	None known.
media	End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer SureSelect XT HS2 Adaptor Oligo Mix	None known. None known. None known. None known.
	Herculase II Fusion DNA Polymerase	None known.
	5X Herculase II Reaction Buffer with dNTPs	None known.
Specific hazards arising from the chemical	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur
	T4 DNA Ligase	and the container may burst. In a fire or if heated, a pressure increase will occur
	Ligation Buffer	and the container may burst. In a fire or if heated, a pressure increase will occur
	SureSelect XT HS2 Adaptor Oligo Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: End Repair-A Tailing Enzyme Mix	Decomposition products may include the following materials: carbon dioxide
	End Repair-A Tailing Buffer	carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	T4 DNA Ligase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ligation Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SureSelect XT HS2 Adaptor	No specific data.

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materials:

Decomposition products may include the following

Oligo Mix

Polymerase

Herculase II Fusion DNA

Section 5. Firefighting measures

5X Herculase II Reaction Buffer with dNTPs

carbon dioxide carbon monoxide

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides

Special protective actions for fire-fighters

: End Repair-A Tailing

Enzyme Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

End Repair-A Tailing Buffer

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

T4 DNA Ligase

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Ligation Buffer

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

SureSelect XT HS2 Adaptor

Oligo Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

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.

Special protective equipment for fire-fighters : End Repair-A Tailing

Enzyme Mix

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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.

T4 DNA Ligase

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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.

SureSelect XT HS2 Adaptor

Oligo Mix

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Herculase II Fusion DNA

Polymerase

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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Section 5. Firefighting measures

5X Herculase II Reaction Buffer with dNTPs

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

: 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: End Repair-A Tailing

Enzyme Mix

T4 DNA Ligase

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on

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

End Repair-A Tailing Buffer

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

suitable and unsuitable materials. See also the

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Section 6. Accidental release measures

Ligation Buffer

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 XT HS2 Adaptor Oligo Mix

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

Herculase II Fusion DNA Polymerase

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

5X Herculase II Reaction Buffer with dNTPs

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).

information in "For non-emergency personnel".

End Repair-A Tailing Buffer

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

T4 DNA Ligase

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

soil or air).

Ligation Buffer

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

SureSelect XT HS2 Adaptor Oligo Mix

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

soil or air).

Herculase II Fusion DNA Polymerase

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

soil or air).

5X Herculase II Reaction Buffer with dNTPs

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

: 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

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Section 6. Accidental release measures

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

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

disposal contractor.

5X Herculase II Reaction Buffer with dNTPs

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

End Repair-A Tailing Enzyme Mix

End Repair-A Tailing Buffer

(2

T4 DNA Ligase

Ligation Buffer

SureSelect XT HS2 Adaptor

Oligo Mix Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction Buffer with dNTPs

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not

reuse container.

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Section 7. Handling and storage

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

Ligation Buffer

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 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

Herculase II Fusion DNA Polymerase 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

5X Herculase II Reaction Buffer with dNTPs

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.

Conditions for safe storage, including any incompatibilities

: 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. Store in accordance with local regulations. Store in original container protected from direct sunlight in a

End Repair-A Tailing Buffer

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Section 7. Handling and storage

T4 DNA Ligase

Ligation Buffer

SureSelect XT HS2 Adaptor Oligo Mix

Herculase II Fusion DNA Polymerase

5X Herculase II Reaction Buffer with dNTPs

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. 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. 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. 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. 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. 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

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Section 7. Handling and storage

incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
End Repair-A Tailing Enzyme Mix Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m³ 8 hours.
T4 DNA Ligase Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m³ 8 hours.
Ligation Buffer Polyethylene glycol	DFG MAC-values list (Germany, 8/2020). PEAK: 400 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m³ 8 hours. Form: inhalable fraction
Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m³ 8 hours.
Herculase II Fusion DNA Polymerase	
Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m³ 8 hours.

Appropriate engineering controls

Environmental exposure controls

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

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Section 8. Exposure controls and personal protection

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 and safety characteristics

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

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AL	w	чa	ıa	ш	LE

Physical state : End Repair-A Tailing Liquid. Enzyme Mix End Repair-A Tailing Buffer Liquid. T4 DNA Ligase Liquid. Ligation Buffer Liquid. SureSelect XT HS2 Adaptor Liquid. Oligo Mix Herculase II Fusion DNA Liquid. Polymerase 5X Herculase II Reaction Liquid. Buffer with dNTPs Colour : End Repair-A Tailing Not available. Enzyme Mix End Repair-A Tailing Buffer Not available. T4 DNA Ligase Not available. Ligation Buffer Not available. SureSelect XT HS2 Adaptor Not available. Oligo Mix Not available. Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Not available. Buffer with dNTPs **Odour** : End Repair-A Tailing Not available. **Enzyme Mix** End Repair-A Tailing Buffer Not available. T4 DNA Ligase Not available. Ligation Buffer Not available. SureSelect XT HS2 Adaptor Not available. Oligo Mix Herculase II Fusion DNA Not available. Polymerase 5X Herculase II Reaction Not available. Buffer with dNTPs **Odour threshold** : End Repair-A Tailing Not available. Enzyme Mix End Repair-A Tailing Buffer Not available. T4 DNA Ligase Not available. Ligation Buffer Not available. SureSelect XT HS2 Adaptor Not available. Oligo Mix Herculase II Fusion DNA Not available. Polymerase 5X Herculase II Reaction Not available.

Buffer with dNTPs

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Section 9. Physical and chemical properties and safety characteristics

рН End Repair-A Tailing 6.5 Enzyme Mix End Repair-A Tailing Buffer 8 T4 DNA Ligase 7.5 Ligation Buffer 8 SureSelect XT HS2 Adaptor 7.5 Oligo Mix Herculase II Fusion DNA 8.2 Polymerase 5X Herculase II Reaction 10 Buffer with dNTPs : End Repair-A Tailing **Melting point/freezing point** Not available. **Enzyme Mix** End Repair-A Tailing Buffer 0°C (32°F) T4 DNA Ligase Not available. Ligation Buffer Not available. SureSelect XT HS2 Adaptor 0°C (32°F) Oligo Mix Herculase II Fusion DNA Not available. Polymerase 5X Herculase II Reaction Not available. Buffer with dNTPs End Repair-A Tailing Not available. **Boiling point, initial boiling** Enzyme Mix point, and boiling range 100°C (212°F) End Repair-A Tailing Buffer Not available. T4 DNA Ligase Ligation Buffer Not available. SureSelect XT HS2 Adaptor 100°C (212°F) Oligo Mix Herculase II Fusion DNA Not available. Polymerase 5X Herculase II Reaction Not available. Buffer with dNTPs

Flash point

		Closed	cup		Open cup	
Ingredient name	°C	°F	Method	°C	°F	Method
Fnd 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	
Ligation Buffer						
(R*,R*)	>110	>230				

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Section 9. Physical and chemical properties and safety characteristics

-1,4-Dimercaptobutane- 2,3-diol						
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 51758			
Herculase II Fusion DNA Polymerase						
Edetic acid	>100	>212	DIN 51758			
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				

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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

Flammability

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

Lower and upper explosion limit/flammability limit

: 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 DNA

Polymerase

5X Herculase II Reaction Buffer with dNTPs

Not available.

Not available. Not available. Not available. Not available.

Not available.

Not available.

Not applicable.

Not applicable. Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

Not available.

Not available.

Not available. Not available. Not available.

Not available.

Not available.

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure 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	

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Section 9. Physical and chemical properties and safety characteristics

		ı			I	
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	
T4 DNA Ligase						
Water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
Ligation Buffer						
Water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
SureSelect XT HS2 Adaptor Oligo Mix						
Water	23.8	3.2		92.258	12.3	
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
Herculase II Fusion DNA Polymerase						
Water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
5X Herculase II Reaction Buffer with dNTPs						
Water	23.8	3.2		92.258	12.3	
Sulfuric acid, magnesium salt, hydrate (1:1:7)	<0.1	<0.013				
End Repair-A Tailing	•	Not availa	able.			

Relative vapour density

: End Repair-A Tailing

Enzyme Mix

End Repair-A Tailing Buffer

Not available. T4 DNA Ligase Not available. Ligation Buffer Not available. Not available.

SureSelect XT HS2 Adaptor

Oligo Mix Herculase II Fusion DNA

Not available.

Polymerase

5X Herculase II Reaction Not available.

Buffer with dNTPs

Not available.

Relative density

: End Repair-A Tailing

Enzyme Mix

Ligation Buffer

End Repair-A Tailing Buffer T4 DNA Ligase

Not available. Not available. Not available. Not available.

SureSelect XT HS2 Adaptor

Oligo Mix Herculase II Fusion DNA

Polymerase

Not available.

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Section 9. Physical and chemical properties and safety

characteristics 5X Herculase II Reaction Not available. Buffer with dNTPs **Solubility** : End Repair-A Tailing Easily soluble in the following materials: cold water Enzyme Mix and hot water. End Repair-A Tailing Buffer Easily soluble in the following materials: cold water and hot water. T4 DNA Ligase Easily soluble in the following materials: cold water and hot water. Ligation Buffer Easily soluble in the following materials: cold water and hot water. SureSelect XT HS2 Adaptor Easily soluble in the following materials: cold water Oligo Mix and hot water. Herculase II Fusion DNA Easily soluble in the following materials: cold water Polymerase and hot water. 5X Herculase II Reaction Easily soluble in the following materials: cold water Buffer with dNTPs and hot water. Partition coefficient: n-: End Repair-A Tailing Not applicable. octanol/water Enzyme Mix End Repair-A Tailing Buffer Not applicable. T4 DNA Ligase Not applicable. Ligation Buffer Not applicable. SureSelect XT HS2 Adaptor Not applicable. Oligo Mix Herculase II Fusion DNA Not applicable. Polymerase 5X Herculase II Reaction Not applicable. Buffer with dNTPs **Auto-ignition temperature**

Ingredient name	°C	°F	Method
Fnd Repair-A Tailing Enzyme Mix			
Glycerol	370	698	
T4 DNA Ligase			
Glycerol	370	698	
Ligation Buffer			
Polyethylene glycol	360	680	
Glycerol	370	698	
SureSelect XT HS2 Adaptor Oligo Mix			
Edetic acid	>400	>752	VDI 2263
Herculase II Fusion DNA Polymerase			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263

Decomposition temperature

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 DNA

Polymerase 5X Herculase II Reaction Not available.

Not available. Not available. Not available. Not available.

Not available.

Not available.

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Section 9. Physical and chemical properties and safety characteristics

Viscosity

Buffer with dNTPs

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

Not available.

Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Particle characteristics Median particle size

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable. Not applicable.

Section 10. Stability and reactivity

Reactivity

End Repair-A Tailing

Enzyme Mix

End Repair-A Tailing Buffer

No specific test data related to reactivity available for

this product or its ingredients.

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. No specific test data related to reactivity available for this product or its ingredients.

SureSelect XT HS2 Adaptor

Oligo Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

this product or its ingredients. No specific test data related to reactivity available for

No specific test data related to reactivity available for

this product or its ingredients.

Chemical stability

: End Repair-A Tailing

Enzyme Mix

End Repair-A Tailing Buffer

T4 DNA Ligase Ligation Buffer

SureSelect XT HS2 Adaptor

Oligo Mix

The product is stable.

The product is stable. The product is stable.

The product is stable.

The product may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information.

The product is stable.

The product is stable.

Herculase II Fusion DNA Polymerase

5X Herculase II Reaction Buffer with dNTPs

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Section 10. Stability and reactivity

Possibility	of	hazardous
reactions		

: End Repair-A Tailing Enzyme Mix

End Repair-A Tailing Buffer

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use,

Under normal conditions of storage and use,

Under normal conditions of storage and use,

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, T4 DNA Ligase

hazardous reactions will not occur.

Ligation Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

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 Buffer

T4 DNA Ligase

Ligation Buffer

SureSelect XT HS2 Adaptor

Oligo Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

No specific data.

No specific data. No specific data. No specific data. No specific data.

No specific data.

No specific data.

Incompatible materials

Conditions to avoid

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

Hazardous decomposition products

: End Repair-A Tailing

Enzyme Mix

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

produced.

Under normal conditions of storage and use, End Repair-A Tailing Buffer

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

SureSelect XT HS2 Adaptor

Oligo Mix

Under normal conditions of storage and use,

produced.

Herculase II Fusion DNA

Polymerase

hazardous decomposition products should not be

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.

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Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
End Repair-A Tailing Enzyme Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
T4 DNA Ligase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Buffer Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Herculase II Fusion DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
5X Herculase II Reaction Buffer with dNTPs Hexadecan-1-ol, ethoxylated	LD50 Oral	Rat	2500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
End Repair-A Tailing					
Enzyme Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
T4 DNA Ligase					
Glycerol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
		1.10.2.11		mg	
	Skin - Mild irritant	Rabbit	_	24 hours 500	_
	Ottor Iving irritarit	T (GDD)		mg	
				9	
Ligation Buffer					
Polyethylene glycol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
,, 9.,				mg	
	Eyes - Mild irritant	Rabbit	_	500 mg	_
	Skin - Mild irritant	Rabbit	_	24 hours 500	_
		1.10.2.11		mg	
	Skin - Mild irritant	Rabbit	_	500 mg	_
Glycerol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
Ciyooror	Lyoo Willa II Harit	rabbit		mg	
	Skin - Mild irritant	Rabbit	_	24 hours 500	
	Okin Willa Imtant	Rabbit			
				mg	
Herculase II Fusion DNA					
Polymerase					
Glycerol	Eyes - Mild irritant	Rabbit		24 hours 500	
- Gryocioi	Lycs - Willa littailt	Tabbit			
	Skin - Mild irritant	Rabbit		mg 24 hours 500	
	Skiii - Willu IIIItalit	Nappit	[[-
				mg	

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary: Not available.

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Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: 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

: 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 DNA

Polymerase

5X Herculase II Reaction Buffer with dNTPs

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

Inhalation

Skin contact

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

: 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 DNA

Polymerase

5X Herculase II Reaction Buffer with dNTPs

: 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 DNA

Polymerase

5X Herculase II Reaction

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.

Causes serious eye irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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Ingestion

Buffer with dNTPs

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

No specific data.

No specific data. No specific data. No specific data. No specific data.

No specific data.

Adverse symptoms may include the following:

pain or irritation watering redness

No specific data.

No specific data.

No specific data.

No specific data.

No specific data. No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

Inhalation

Skin contact

Ingestion

: End Repair-A Tailing

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 No specific data.

Oligo Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

: 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 DNA

Polymerase

5X Herculase II Reaction

No specific data.

No specific data.

Buffer with dNTPs

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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

: Not available.

effects

Mutagenicity

Potential delayed effects : Not available.

Potential chronic health effects

General : 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Carcinogenicity : 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 DNA

Polymerase

5X Herculase II Reaction Buffer with dNTPs

Dullet With airt

: 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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

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 DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

The Known eighnouth endote of officer fluzures

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.

Numerical measures of toxicity

Acute toxicity estimates

Reproductive toxicity

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Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
End Repair-A Tailing Enzyme Mix					
Glycerol	12600	N/A	N/A	N/A	N/A
T4 DNA Ligase					
Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Buffer					
Polyethylene glycol	28000	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
Herculase II Fusion DNA Polymerase					
Glycerol	12600	N/A	N/A	N/A	N/A
5X Herculase II Reaction Buffer with dNTPs					
5X Herculase II Reaction Buffer with dNTPs	55000	N/A	N/A	N/A	N/A
Hexadecan-1-ol, ethoxylated	500	N/A	N/A	N/A	N/A

Other information : End Repair-A Tailing Not available.

Enzyme Mix

End Repair-A Tailing Buffer Adverse symptoms may include the following: May

cause skin sensitisation.

T4 DNA Ligase Not available. Ligation Buffer Not available. SureSelect XT HS2 Adaptor Not available.

Oligo Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction Buffer with dNTPs

Not available.

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
End Repair-A Tailing Enzyme Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
T4 DNA Ligase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ligation Buffer Polyethylene glycol Glycerol	Acute LC50 >1000000 μg/l Fresh water Acute LC50 54000 mg/l Fresh water	Fish - Salmo salar - Parr Fish - Oncorhynchus mykiss	96 hours 96 hours
Herculase II Fusion DNA Polymerase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
5X Herculase II Reaction Buffer with dNTPs Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours

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Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
End Repair-A Tailing Enzyme Mix					
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-
T4 DNA Ligase					
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		_	-
Ligation Buffer					
Polyethylene glycol	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily -	28 days	4 mg/l	-
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		_	-
Herculase II Fusion DNA					
Polymerase					
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	3	Biodegradability
☑gation Buffer Polyethylene glycol	-		-		Readily
5X Herculase II Reaction Buffer with dNTPs					

Bioaccumulative potential

Hexadecan-1-ol, ethoxylated -

Product/ingredient name	LogPow	BCF	Potential
End Repair-A Tailing Enzyme Mix	4.70		
Glycerol	-1.76	-	low
T4 DNA Ligase Glycerol	-1.76	-	low
Ligation Buffer Polyethylene glycol Glycerol	- -1.76	3.2	low low
Herculase II Fusion DNA Polymerase Glycerol	-1.76	-	low

Readily

Mobility in soil

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

Section 12. Ecological information

Soil/water partition coefficient (Koc)

: 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 nonrecyclable 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 : Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines 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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined. Canada : Not determined. China : Not determined. **Europe** : Not determined.

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Section 15. Regulatory information

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Any other relevant information

History

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revision

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Key to abbreviations

: 2: ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

Classification	Justification
₹ Herculase II Reaction Buffer with dNTPs	
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method

References : Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

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