Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET



SSEL XT HS2 TE Kit, ILM Hyb Module, Box 2 (Post PCR), 96 Rxns, Part Number 5191-6688

Section 1. Identification

Product identifier	:	SSEL XT HS2 TE Kit, ILM Hyb Module, Bo 5191-6688	ox 2 (Post PCR), 96 Rxns, Part Number
Part no. (chemical kit)	1	5191-6688	
Part no.	:	SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	5191-6679 5190-7330 5972-3700 5190-9732 5600-3761 5191-6681
Relevant identified uses of the	<u>1e</u> :	substance or mixture and uses advised a	<u>against</u>
Material uses	:	Analytical reagent. For Research Use Only. Not for use in di SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	agnostic procedures. 0.7 ml (96 reactions) 0.918 ml (96 reactions) 0.08 ml 0.14 ml (96 reactions) 0.14 ml (96 reactions) 1.5 ml (96 reactions)
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 substa X Herculase II Reaction Buffer with dNTPs	ance or mixture	
H319	SERIOUS EYE DAMAGE/EYE	E IRRITATION - Category 2A
	SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 31.3%
	5X Herculase II Reaction 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	: 5X Herculase II Reaction Buffer with dNTPs	

Section 2. Hazard(s) identification

Section 2. Hazard	s) Identification	
Signal word	: SureSelect XT HS2 Blocker Mix	No signal word.
	SureSelect Fast Hybridization Buffer	No signal word.
	SureSelect RNase Block SureSelect Post-Capture Primer Mix	No signal word. No signal word.
	Herculase II Fusion DNA Polymerase	No signal word.
	5X Herculase II Reaction Buffer with dNTPs	WARNING
Hazard statements	: SureSelect XT HS2 Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards. 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		
Prevention	: SureSelect XT HS2 Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture	Not applicable.
	Primer Mix Herculase II Fusion DNA	Not applicable.
	Polymerase 5X Herculase II Reaction Buffer with dNTPs	P280 - Wear eye or face protection.
Response	: SureSelect XT HS2 Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture Primer 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	: SureSelect XT HS2 Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture Primer Mix	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer with dNTPs	Not applicable.

Section 2. Hazard(s) identification

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Disposal	1	SureSelect XT HS2 Blocker Mix	Not applicable.
		SureSelect Fast Hybridization Buffer	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Post-Capture Primer Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		5X Herculase II Reaction Buffer with dNTPs	Not applicable.
Supplemental label elements			
Additional warning phrases	:	SureSelect XT HS2 Blocker Mix	Not applicable.
		SureSelect Fast Hybridization Buffer	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Post-Capture Primer Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		5X Herculase II Reaction Buffer with dNTPs	Not applicable.
Other hazards which do not result in classification	:	SureSelect XT HS2 Blocker Mix	None known.
		SureSelect Fast Hybridization Buffer	None known.
		SureSelect RNase Block	None known.
		SureSelect Post-Capture Primer Mix	None known.
		Herculase II Fusion DNA Polymerase	None known.
		5X Herculase II Reaction Buffer with dNTPs	None known.

Section 3. Composition and ingredient information

Substance/mixture	: SureSelect XT HS2 Blocker Mix	Mixture
	SureSelect Fast Hybridization Buffer	Mixture
	SureSelect RNase Block	Mixture
	SureSelect Post-Capture Primer Mix	Mixture
	Herculase II Fusion DNA Polymerase	Mixture
	5X Herculase II Reaction Buffer with dNTPs	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
SureSelect RNase Block Glycerol	≥30 - ≤60	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
Date of issue/Date of revision : 29/04/2022 Date of previous issue	: 17/12/2019	Version : 2 3/28

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Section 3. Composition and ingredient information

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

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

Section 4. First aid measures

Description of necessary first a	<u>id measures</u>	
Eye contact :	SureSelect XT HS2 Blocker Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Fast Hybridization 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 RNase Block	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 Post-Capture Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	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 :	SureSelect XT HS2 Blocker Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Fast Hybridization 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 48 hours.
	SureSelect RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Post-Capture Primer Mix	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	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	5X Herculase II Reaction Buffer with dNTPs	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	: SureSelect XT HS2 Blocker Mix SureSelect Fast	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hybridization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Post-Capture Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	Herculase II Fusion DNA Polymerase	medical attention if symptoms occur. 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: SureSelect XT HS2 Blocker 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 symptoms occur.
	SureSelect Fast Hybridization Buffer	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.
	SureSelect RNase Block	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.
	SureSelect Post-Capture Primer 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 symptoms occur.
	Herculase II Fusion DNA Polymerase	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. 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.

symptoms may be delayed. The exposed person

Most important symptoms/ef		<u>cts, acute and delayed</u>	
Potential acute health effect	S		
Eye contact	1	SureSelect XT HS2 Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect Post-Capture Primer 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	Causes serious eye irritation.
Inhalation	:	SureSelect XT HS2 Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect Post-Capture Primer 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	1	SureSelect XT HS2 Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block SureSelect Post-Capture	No known significant effects or critical hazards. No known significant effects or critical hazards.
		Primer 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	;	SureSelect XT HS2 Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect Post-Capture Primer 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/sympt	on	<u>ns</u>	
Eye contact	:	SureSelect XT HS2 Blocker Mix	No specific data.
		SureSelect Fast Hybridization Buffer	No specific data.
		SureSelect RNase Block SureSelect Post-Capture	No specific data. No specific data.
		Primer Mix Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer with dNTPs	Adverse symptoms may include the following:
			pain or irritation watering
			redness

Inhalation	: SureSelect XT HS2 Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Post-Capture Primer Mix	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer with dNTPs	No specific data.
Skin contact	: SureSelect XT HS2 Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Post-Capture Primer Mix	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer with dNTPs	No specific data.
Ingestion	: SureSelect XT HS2 Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Post-Capture Primer Mix	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer with dNTPs	No specific data.

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

Notes to physician	: SureSelect XT HS2 Blocker Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Fast Hybridization 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.
	SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Post-Capture Primer 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.
Specific treatments	: SureSelect XT HS2 Blocker Mix	No specific treatment.
	SureSelect Fast Hybridization Buffer	No specific treatment.
	SureSelect RNase Block SureSelect Post-Capture Primer Mix	No specific treatment. No specific treatment.

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	Herculase II Fusion DNA Polymerase	No specific treatment.
	5X Herculase II Reaction Buffer with dNTPs	No specific treatment.
Protection of first-aiders	: SureSelect XT HS2 Blocker Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Fast Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Post-Capture Primer Mix	No action shall be taken involving any personal risk or without suitable training.
	Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
	5X Herculase II Reaction Buffer with dNTPs	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		
Suitable extinguishing media	: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer 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.
Unsuitable extinguishing media	: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	None known. None known. None known. None known. None known.
Specific hazards arising from the chemical	: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	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. 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. 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.

Section 5. Firefighting measures

Hazardous thermal decomposition products	: SureSelect XT HS2 Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide
		carbon monoxide
		nitrogen oxides halogenated compounds
		metal oxide/oxides
	SureSelect RNase Block	Decomposition products may include the following materials:
		carbon dioxide
	Curra Cala et Da et Caretura	carbon monoxide
	SureSelect Post-Capture Primer Mix	No specific data.
	Herculase II Fusion DNA Polymerase	Decomposition products may include the following materials:
		carbon dioxide carbon monoxide
	5X Herculase II Reaction Buffer with dNTPs	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	: SureSelect XT HS2 Blocker Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
for me-lighters	WIA	action shall be taken involving any personal risk or without suitable training.
	SureSelect Fast	Promptly isolate the scene by removing all persons
	Hybridization Buffer	from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	Promptly isolate the scene by removing all persons
		from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
		without suitable training.
	SureSelect Post-Capture Primer Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
		action shall be taken involving any personal risk or
	Herculase II Fusion DNA	without suitable training. Promptly isolate the scene by removing all persons
	Polymerase	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	Promptly isolate the scene by removing all persons
	Buffer with dNTPs	from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
Special protective	: SureSelect XT HS2 Blocker	without suitable training. Fire-fighters should wear appropriate protective
equipment for fire-fighters	Mix	equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
		pressure mode.
	SureSelect Fast Hybridization Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
		pressure mode.
	SureSelect RNase Block	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus
		(SCBA) with a full face-piece operated in positive
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Section 5. Firefighting measures

SureSelect Post-Capture Primer Mix	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.
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	: SureSelect XT HS2 Blocker Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Fast Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Post-Capture Primer Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	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	: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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".

Section 6. Accidental release measures

L	SureSelect RNase Block	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on
	SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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 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
Environmental precautions	: SureSelect XT HS2 Blocker	information in "For non-emergency personnel". Avoid dispersal of spilt material and runoff and
	Mix	contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureSelect Fast Hybridization Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,
	SureSelect RNase Block	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).
	SureSelect Post-Capture Primer Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	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 co	ontainment and cleaning up	
Methods for cleaning up	: SureSelect XT HS2 Blocker Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor
	SureSelect Fast Hybridization Buffer SureSelect RNase Block	disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill
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Section 6. Accidental release measures

	Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Post-Capture	Stop leak if without risk. Move containers from spill
Primer Mix	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.
Llereviere II Evision DNA	•
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	Stop leak if without risk. Move containers from spill
Buffer with dNTPs	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 handlin	g	
Protective measures	: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPs	 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.
Advice on general occupational hygiene	: SureSelect XT HS2 Blocker Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect Fast Hybridization Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect RNase Block	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove

Section 7. Handling and storage

	5 5 -	
	SureSelect Post-Capture Primer Mix	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for
	Herculase II Fusion DNA Polymerase	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	: SureSelect XT HS2 Blocker 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
	SureSelect Fast Hybridization Buffer	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
	SureSelect RNase Block	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
	SureSelect Post-Capture Primer Mix	containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until

Section 7. Handling and storage

Herculase II Fusion DNA Polymerase	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
5X Herculase II Reaction Buffer with dNTPs	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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SureSelect RNase Block	
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/m ³ 8 hours.

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

Individual protection measure	<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.

Section 8. Exposure controls and personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

<u>Appearance</u>			
Physical state	:	SureSelect XT HS2 Blocker Mix	Liquid.
		SureSelect Fast Hybridization Buffer	Liquid.
		SureSelect RNase Block	Liquid.
		SureSelect Post-Capture Primer Mix	Liquid.
		Herculase II Fusion DNA Polymerase	Liquid.
		5X Herculase II Reaction Buffer with dNTPs	Liquid.
Colour	:	SureSelect XT HS2 Blocker Mix	Not available.
		SureSelect Fast Hybridization Buffer	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Post-Capture Primer Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		5X Herculase II Reaction Buffer with dNTPs	Not available.
Odour	:	SureSelect XT HS2 Blocker Mix	Not available.
		SureSelect Fast Hybridization Buffer	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Post-Capture Primer Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		5X Herculase II Reaction Buffer with dNTPs	Not available.

characteristics								
Odour threshold	:	SureSelect XT HS2 I Mix	Blocker	Not avai	ilable.			
		SureSelect Fast Hybridization Buffer		Not avai	ilable.			
		SureSelect RNase B	Not available.					
		SureSelect Post-Cap Primer Mix	oture	Not avai	ilable.			
		Herculase II Fusion I Polymerase	DNA	Not avai	ilable.			
		5X Herculase II Read Buffer with dNTPs	ction	Not avai	ilable.			
рН	:	SureSelect XT HS2 I Mix	Blocker	7.5				
		SureSelect Fast Hybridization Buffer		Not avai	ilable.			
		SureSelect RNase B	lock	7.6				
		SureSelect Post-Cap Primer Mix	oture	7.5				
		Herculase II Fusion I Polymerase		8.2				
		5X Herculase II Read Buffer with dNTPs	ction	10				
Melting point/freezing point	1	SureSelect XT HS2 I Mix	Blocker	0°C (32°	°F)			
		SureSelect Fast Hybridization Buffer	Not available.					
		SureSelect RNase B SureSelect Post-Cap	Not available. 0°C (32°F)					
		Primer Mix Herculase II Fusion I	Not available.					
		Polymerase 5X Herculase II Read Buffer with dNTPs	Not available.					
Boiling point, initial boiling point, and boiling range	:	SureSelect XT HS2 I Mix	100°C (212°F)					
		SureSelect Fast Hybridization Buffer		Not available.				
		SureSelect RNase B SureSelect Post-Cap Primer Mix	Not available. 100°C (212°F)					
		Herculase II Fusion I Polymerase	Not available.					
		5X Herculase II Read Buffer with dNTPs	ction	Not avai	ilable.			
Flash point	1			Closed	cup		Open of	cup
		Ingredient name	°C	°F	Method	°C	°F	Method
		SureSelect XT HS2 Blocker Mix						
		Edetic acid	>100	>212	DIN 51758			
		SureSelect RNase Block						
		(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				
		Glycerol			Pensky- Martens	177	350.6	
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characteristics								
		ureSelect Post- apture Primer Mix						
	Ed	letic acid	>100	>212	DIN 51758			
		erculase II Fusion NA Polymerase						
		letic acid	>100	>212	DIN 51758			
	-1,	*,R*) ,4-Dimercaptobutane- 3-diol	>110	>230				
Evaporation rate	: Su Mi	ireSelect XT HS2 E	Blocker	Not avail	able.			
	Su	SureSelect Fast Hybridization Buffer		Not avail	able.			
	Su	ireSelect RNase Bl ireSelect Post-Cap		Not avail Not avail				
	Pri	imer Mix						
	Po	erculase II Fusion E Iymerase		Not avail				
		Herculase II Read Iffer with dNTPs	tion	Not available.				
Flammability	: Su Mi	ireSelect XT HS2 E x	Not applicable.					
		reSelect Fast bridization Buffer		Not applicable.				
	Su	ireSelect RNase Bl		Not applicable. Not applicable.				
	Pri	SureSelect Post-Capture Primer Mix						
	Po	erculase II Fusion E Iymerase (Herculase II Reac		Not appli				
	Bu	Iffer with dNTPs		Not appli				
Lower and upper explosion limit/flammability limit	Mi		Blocker	Not available.				
		reSelect Fast bridization Buffer		Not avail	able.			
	Su Su	ireSelect RNase Bl ireSelect Post-Cap imer Mix		Not avail Not avail				
		erculase II Fusion E Ilymerase	DNA	Not avail	able.			
	5X	Herculase II Read	tion	Not available.				
Vapour pressure	:		Vapoι	our Pressure at 20°C		Vapour pressure at 50°		ire at 50°C
	In	igredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		ireSelect XT HS2 ocker Mix						
	W	ater	23.8	3.2		92.258	12.3	
	(hy	Amino-2- ydroxymethyl)propane- 3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
		reSelect Fast /bridization Buffer						
	W	ater	23.8	3.2		92.258	12.3	
	2-/	Amino-2-	0.000027	0.0000036		0.000007501	0.000001	

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	(hydroxymethyl)propane- 1,3-diol hydrochloride						
	SureSelect RNase Block						
	Water 23.8 3.2	92.258 12.3					
	Glycerol 0.000075 0.00001	0.0025 0.00033					
	SureSelect Post- Capture Primer Mix						
	Water 23.8 3.2	92.258 12.3					
	2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	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, <0.1 <0.013 magnesium salt, hydrate (1:1:7)						
Relative vapour density	: SureSelect XT HS2 Blocker Not available.						
	Mix SureSelect Fast Not available. Hybridization Buffer	Not available.					
	SureSelect RNase Block Not available. SureSelect Post-Capture Not available. Primer Mix						
	Herculase II Fusion DNA Not available. Polymerase						
	5X Herculase II Reaction Not available. Buffer with dNTPs						
Relative density	: SureSelect XT HS2 Blocker Not available. Mix						
	SureSelect Fast Not available. Hybridization Buffer						
	SureSelect RNase Block Not available. SureSelect Post-Capture Not available. Primer Mix						
	Herculase II Fusion DNA Not available. Polymerase	Not available.					
	5X Herculase II Reaction Not available. Buffer with dNTPs						
Solubility	Mix and hot water.	he following materials: cold water					
	Hybridization Buffer and hot water.	he following materials: cold water he following materials: cold water					
	and hot water.	he following materials: cold water					
	Primer Mix and hot water.	-					
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		Polymerase	and hot water			
		5X Herculase II Reaction	Easily soluble	in the follow	ing materials: cold water	
		Buffer with dNTPs	and hot water.			
Partition coefficient: n- octanol/water	÷	SureSelect XT HS2 Blocker	Not applicable	Э.		
octanol/water		SureSelect Fast	Not applicable.			
		Hybridization Buffer				
		SureSelect RNase Block	Not applicable			
		SureSelect Post-Capture Primer Mix	Not applicable			
		Herculase II Fusion DNA	Not applicable	Э.		
		Polymerase	Notonalizable			
		5X Herculase II Reaction Buffer with dNTPs	Not applicable	2.		
Auto-ignition temperature	:	Ingredient name	°C	°F	Method	
		SureSelect XT HS2 Blocker Mix				
		Edetic acid	>400	>752	VDI 2263	
		SureSelect RNase Block				
		Glycerol	370	698		
		4-(2-Hydroxyethyl)piperazin-	>400	>752	EU A.16	
		1-ylethanesulphonic acid				
		SureSelect Post-Capture Primer N	lix			
		Edetic acid	>400	>752	VDI 2263	
		Herculase II Fusion DNA Polymerase				
		Glycerol	370	698		
		Edetic acid	>400	>752	VDI 2263	
Decomposition temperature	:	SureSelect XT HS2 Blocker	Not available.	1		
		Mix SureSelect Fast	Not available.			
		Hybridization Buffer SureSelect RNase Block	Not available.			
		SureSelect Post-Capture	Not available.			
		Primer Mix Herculase II Fusion DNA	Not available.			
		Polymerase 5X Herculase II Reaction	Not available.			
		Buffer with dNTPs	N 1 / 11 / 11			
Viscosity	÷	SureSelect XT HS2 Blocker Mix	Not available.			
		SureSelect Fast	Not available.			
		Hybridization Buffer SureSelect RNase Block	Not available.			
		SureSelect Post-Capture	Not available.			
		Primer Mix	Not ovellable			
		Herculase II Fusion DNA Polymerase	Not available.			
		5X Herculase II Reaction	Not available.			
Dartiala abaractariatica		Buffer with dNTPs				
Particle characteristics						

Particle characteristics

Median particle size	: SureSelect XT HS2 Blocker	Not applicable.
	Mix SureSelect Fast	Not applicable.
	Hybridization Buffer	
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture Primer Mix	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer with dNTPs	Not applicable.

Section 10. Stability and reactivity

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Reactivity	: SureSelect XT HS2 Blocker	No specific test data related to reactivity available for
	Mix Sure Select Feet	this product or its ingredients.
	SureSelect Fast Hybridization Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect RNase Block	No specific test data related to reactivity available for
	SureSelect Rivase Diock	this product or its ingredients.
	SureSelect Post-Capture	No specific test data related to reactivity available for
	Primer Mix	this product or its ingredients.
	Herculase II Fusion DNA	No specific test data related to reactivity available for
	Polymerase	this product or its ingredients.
	5X Herculase II Reaction	No specific test data related to reactivity available for
	Buffer with dNTPs	this product or its ingredients.
Chemical stability	: SureSelect XT HS2 Blocker Mix	The product is stable.
	SureSelect Fast	The product is stable.
	Hybridization Buffer	·
	SureSelect RNase Block	The product is stable.
	SureSelect Post-Capture	The product is stable.
	Primer Mix	
	Herculase II Fusion DNA	The product is stable.
	Polymerase	<u>-</u> , , , , , , ,
	5X Herculase II Reaction	The product is stable.
	Buffer with dNTPs	
Possibility of hazardous	: SureSelect XT HS2 Blocker	Under normal conditions of storage and use,
reactions	Mix	hazardous reactions will not occur.
	SureSelect Fast	Under normal conditions of storage and use,
	Hybridization Buffer	hazardous reactions will not occur.
	SureSelect RNase Block	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	SureSelect Post-Capture	Under normal conditions of storage and use,
	Primer Mix	hazardous reactions will not occur.
	Herculase II Fusion DNA	Under normal conditions of storage and use,
	Polymerase	hazardous reactions will not occur.
	5X Herculase II Reaction Buffer with dNTPs	Under normal conditions of storage and use, hazardous reactions will not occur.
		hazardous reactions will not occur.
Conditions to avoid	: SureSelect XT HS2 Blocker	No specific data.
	Mix	
	SureSelect Fast	No specific data.
	Hybridization Buffer	No aposifio data
	SureSelect RNase Block SureSelect Post-Capture	No specific data.
	Primer Mix	No specific data.
	Herculase II Fusion DNA	No specific data.

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Section 10. Stability and reactivity

	J	
	Polymerase 5X Herculase II Reaction Buffer with dNTPs	No specific data.
Incompatible materials	: SureSelect XT HS2 Blocker Mix	May react or be incompatible with oxidising materials.
	SureSelect Fast Hybridization Buffer	May react or be incompatible with oxidising materials.
	SureSelect RNase Block SureSelect Post-Capture Primer Mix	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
	Herculase II Fusion DNA Polymerase	May react or be incompatible with oxidising materials.
	5X Herculase II Reaction Buffer with dNTPs	May react or be incompatible with oxidising materials.
Hazardous decomposition products	: SureSelect XT HS2 Blocker Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Fast Hybridization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Post-Capture Primer 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

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect RNase Block 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 **Observation Exposure** SureSelect RNase Block Glycerol Eyes - Mild irritant Rabbit 24 hours 500 mg Skin - Mild irritant Rabbit 24 hours 500 mg **Herculase II Fusion DNA** Polymerase Date of issue/Date of revision : 29/04/2022 Date of previous issue : 17/12/2019 Version : 2 21/28

Glycerol	Eyes - Mild irritant		i	24 hours 500	-
		T ADDIL		mg	-
	Skin - Mild irritant	Rabbit		24 hours 500 mg	-
Sensitisation					
Not available.					
Mutagenicity					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary <u>Reproductive toxicity</u>	: Not available.				
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxic	ity (single exposure	<u>e)</u>			
Not available.					
Specific target organ toxic	ity (repeated expos	<u>ure)</u>			
Not available.					
Aspiration hazard					
Not available.					
Information on likely routes of exposure	: SureSelect XT Mix	HS2 Blocker Not a	available.		
orexposure	SureSelect Fas	t Rout	es of entry anticipa	ited: Oral, Der	mal, Inhalation.
	Hybridization Bu SureSelect RNa		es of entry anticipa	tod: Oral Dar	mal Inhalation
	SureSelect Pos		available.	ileu. Orai, Den	inal, initialation.
	Primer Mix Herculase II Fu	sion DNA Rout	es of entry anticipa	ited: Oral Der	mal Inhalation
	Polymerase				
	5X Herculase II Buffer with dNT		es of entry anticipa	ited: Oral, Der	mal, Inhalation.
Potential acute health effect		13			
Eye contact	: SureSelect XT	HS2 Blocker No k	nown significant ef	fects or critical	l hazards.
	Mix SureSelect Fas	t No k	nown significant ef	fects or critical	hazarde
	Hybridization B		nown significant er		i flazarus.
	SureSelect RNa SureSelect Pos		nown significant ef nown significant ef		
	Primer Mix		nown significant ei		i nazarus.
	Herculase II Fu Polymerase	sion DNA No k	nown significant ef	fects or critica	l hazards.
	5X Herculase II	Reaction Caus	ses serious eye irrit	ation.	
	Buffer with dNT				
Inhalation	: SureSelect XT Mix	HS2 Blocker No k	nown significant ef	fects or critica	hazards.
	SureSelect Fas		nown significant ef	fects or critica	l hazards.
	Hybridization Bo SureSelect RNa		nown significant ef	fects or critical	l hazards
	SureSelect Pos		nown significant ef		
	Primer Mix Herculase II Fu		nown significant ef	fects or critical	hazards
	Polymerase		-		
	5X Herculase II Buffer with dNT		nown significant ef	fects or critica	l hazards.

	5	
Skin contact	: SureSelect XT HS2 Blocker No known significant effects or critical hazards. Mix	
	SureSelect Fast No known significant effects or critical hazards. Hybridization Buffer	
	SureSelect RNase Block No known significant effects or critical hazards.	
	SureSelect Post-Capture No known significant effects or critical hazards. Primer 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	
Ingestion	: SureSelect XT HS2 Blocker No known significant effects or critical hazards. Mix	
	SureSelect Fast No known significant effects or critical hazards. Hybridization Buffer	
	SureSelect RNase Block No known significant effects or critical hazards.	
	SureSelect Post-Capture No known significant effects or critical hazards. Primer 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	

Symptoms related to the physical, chemical and toxicological characteristics

SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase Suffer with dNTPsNo specific data. No specific data.Inhalation:SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization BufferNo specific data. No specific data.Inhalation:SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization BufferNo specific data. No specific data.Skin contact:SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization BufferNo specific data. No specific data.Skin contact:SureSelect Tast Herculase II Fusion DNA No specific data.No specific data. No specific data.Skin contact:SureSelect Fast Hight With dNTPsNo specific data. No specific data.Skin contact:SureSelect Fast Herculase II Fusion DNA No specific data.No specific data. No specific data.Skin contact:SureSelect Tast Herculase II Reaction Buffer with dNTPsNo specific data. No specific data.Skin contact:SureSelect Tast Herculase II Reaction Buffer with dNTPsNo specific data. No specific data.Skin contact:SureSelect Tast Hybridization BufferNo specific data. No specific data.	Eye contact	: SureSelect XT HS2 Blocker No Mix	specific data.
SureSelect RNase Block SureSelect Post-Capture Primer Mix Herculase II Fusion DNA 		SureSelect Fast No	specific data.
Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPsNo specific data.Inhalation: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization BufferNo specific data.Inhalation: SureSelect XT HS2 Blocker Mix SureSelect Fast Herculase II Fusion DNA No specific data.No specific data.Skin contact: SureSelect Fast Herculase II Fusion DNA Buffer with dNTPsNo specific data.Skin contact: SureSelect TAT HS2 Blocker Mix SureSelect RNase Block Herculase II Fusion DNA Buffer With dNTPsNo specific data.Skin contact: SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Buffer with dNTPsNo specific data.Skin contact: SureSelect XT HS2 Blocker Mix Buffer With dNTPsNo specific data.Skin contact: SureSelect Tast Mix SureSelect Fast Hybridization BufferNo specific data.		SureSelect RNase Block No	specific data.
Polymerase 5X Herculase II Reaction Buffer with dNTPsAdverse symptoms may include the following: pain or irritation watering rednessInhalation:SureSelect XT HS2 Blocker Mix SureSelect Fast SureSelect RNase Block SureSelect RNase Block No specific data.No specific data.Hybridization Buffer SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase SX Herculase II Reaction Buffer with dNTPsNo specific data.Skin contact:SureSelect XT HS2 Blocker Mix SureSelect RNase Block No specific data.Skin contact:SureSelect RNase Block No specific data.No specific data.No specific data.Primer Mix Herculase II Reaction Buffer with dNTPsNo specific data.Skin contact:SureSelect XT HS2 Blocker No specific data.Mix SureSelect Fast Hybridization BufferNo specific data.		•	specific data.
Buffer with dNTPs pain or irritation watering redness Inhalation : SureSelect XT HS2 Blocker No specific data. Mix SureSelect Fast No specific data. Hybridization Buffer SureSelect RNase Block No specific data. SureSelect Post-Capture No specific data. Primer Mix Herculase II Fusion DNA No specific data. Polymerase 5X Herculase II Reaction No specific data. Skin contact : SureSelect XT HS2 Blocker No specific data. Skin contact : SureSelect Sate II Reaction No specific data. Mix SureSelect XT HS2 Blocker No specific data. SureSelect Post-Capture No specific data. Polymerase SX Herculase II Reaction No specific data. SureSelect XT HS2 Blocker No specific data. Mix SureSelect Fast No specific data. Mix SureSelect Fast No specific data. Hybridization Buffer No specific data.		Polymerase	specific data.
Inhalation: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect RNase Block No specific data.No specific data.Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPsNo specific data.Skin contact: SureSelect XT HS2 Blocker Mix Herculase II Reaction Buffer with dNTPsNo specific data.Skin contact: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization BufferNo specific data.Skin contact: SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization BufferNo specific data.			verse symptoms may include the following:
MixNo specific data.SureSelect FastNo specific data.Hybridization BufferSureSelect RNase BlockNo specific data.SureSelect Post-CaptureNo specific data.Primer MixHerculase II Fusion DNANo specific data.Polymerase5X Herculase II ReactionNo specific data.Buffer with dNTPsSureSelect XT HS2 BlockerNo specific data.MixSureSelect FastNo specific data.Hybridization BufferNo specific data.		wa	tering
Hybridization Buffer SureSelect RNase Block No specific data. SureSelect Post-Capture No specific data. Primer Mix Herculase II Fusion DNA No specific data. Polymerase 5X Herculase II Reaction No specific data. Skin contact : SureSelect XT HS2 Blocker No specific data. Mix SureSelect Fast No specific data. Hybridization Buffer No specific data. No specific data.	Inhalation		specific data.
SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer with dNTPsNo specific data.Skin contact:SureSelect XT HS2 Blocker Mix SureSelect Fast Hybridization BufferNo specific data.			specific data.
Primer Mix Herculase II Fusion DNA No specific data. Polymerase 5X Herculase II Reaction No specific data. Skin contact : SureSelect XT HS2 Blocker No specific data. Mix SureSelect Fast No specific data. Hybridization Buffer No specific data.			specific data.
Polymerase 5X Herculase II Reaction No specific data. Skin contact : SureSelect XT HS2 Blocker No specific data. Mix SureSelect Fast No specific data. Hybridization Buffer No specific data.		Primer Mix	
Skin contact Buffer with dNTPs Skin contact SureSelect XT HS2 Blocker No specific data. Mix SureSelect Fast No specific data. Hybridization Buffer No specific data.		Polymerase	specific data.
Mix SureSelect Fast No specific data. Hybridization Buffer			specific data.
Hybridization Buffer	Skin contact		specific data.
SureSelect RNase Block No specific data			specific data.
		SureSelect RNase Block No	specific data.
SureSelect Post-Capture No specific data. Primer Mix			specific data.
Herculase II Fusion DNA No specific data. Polymerase		Polymerase	specific data.
5X Herculase II Reaction No specific data. Buffer with dNTPs			specific data.

Ingestion	: SureSelect XT HS2 Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Post-Capture Primer Mix	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer with dNTPs	No specific data.
	SureSelect Post-Capture Primer Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction	No specific data. No specific data.

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	1	Not available.	
Long term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	1	Not available.	
Potential chronic health effe	ect	<u>s</u>	
General	1	SureSelect XT HS2 Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect Post-Capture Primer 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.
Carcinogenicity	1	SureSelect XT HS2 Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect Post-Capture Primer 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.
Mutagenicity	1	SureSelect XT HS2 Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block SureSelect Post-Capture	No known significant effects or critical hazards. No known significant effects or critical hazards.
		Primer 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.

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Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SureSelect RNase Block 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 Hexadecan-1-ol, ethoxylated	55000 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A

Other information	: SureSelect XT HS2 Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Adverse symptoms may include the following: May cause skin sensitisation.
	SureSelect Post-Capture Primer Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer with dNTPs	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	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

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
SureSelect RNase Block 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	S	Biodegradability
5X Herculase II Reaction Buffer with dNTPs Hexadecan-1-ol, ethoxylated	-		-		Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
SureSelect RNase Block Glycerol	-1.76	-	low
Herculase II Fusion DNA Polymerase Glycerol	-1.76	-	low

Mobility in soil

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	1	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.

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SSEL XT HS2 TE Kit, ILM Hyb Module, Box 2 (Post PCR), 96 Rxns, Part Number 5191-6688

Section 14. Transport information

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (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

<u>History</u>	
Date of issue/Date of revision	: 29/04/2022
Date of previous issue	: 17/12/2019
Version	: 2
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container

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Section 16. Any other relevant information

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
5X 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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