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, Box 2 (Post PCR), 96 Rxns, Part Number

5191-6688

Part no. (chemical kit) : 5191-6688

Part no. : SureSelect XT HS2 Blocker Mix 5191-6679

SureSelect Fast Hybridization Buffer 5190-7330
SureSelect RNase Block 5972-3700
SureSelect Post-Capture Primer Mix 5190-9732
Herculase II Fusion DNA Polymerase 5600-3761
5X Herculase II Reaction Buffer with dNTPs 5191-6681

Material uses : Analytical reagent.

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

SureSelect XT HS2 Blocker Mix

0.7 ml (96 reactions)

SureSelect Fast Hybridization Buffer

0.918 ml (96 reactions)

SureSelect RNase Block 0.08 ml

SureSelect Post-Capture Primer Mix
Herculase II Fusion DNA Polymerase
5X Herculase II Reaction Buffer with dNTPs
0.14 ml (96 reactions)
0.14 ml (96 reactions)

Supplier/Manufacturer : Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of operation)

: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

SureSelect RNase Block

H320 EYE IRRITATION - Category 2B

Herculase II Fusion DNA

Polymerase

H320 EYE IRRITATION - Category 2B

GHS label elements

Signal word : SureSelect XT HS2 Blocker No signal word.

Mix

SureSelect Fast No signal word.

Hybridization Buffer

SureSelect RNase Block Warning
SureSelect Post-Capture No signal word.

Primer Mix

Herculase II Fusion DNA Warning

Polymerase

5X Herculase II Reaction No signal word.

Buffer with dNTPs

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Section 2. Hazard identification

Hazard statements

: 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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

H320 - Causes eye irritation.

No known significant effects or critical hazards.

H320 - Causes eye irritation.

No known significant effects or critical hazards.

Precautionary statements

Prevention

: SureSelect XT HS2 Blocker

SureSelect Fast

Hybridization Buffer

SureSelect RNase Block SureSelect Post-Capture

Primer 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.

Response

: SureSelect XT HS2 Blocker

Mix

SureSelect Fast Hybridization Buffer SureSelect RNase Block Not applicable.

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.

SureSelect Post-Capture

Primer Mix

Herculase II Fusion DNA

Polymerase

Not applicable.

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.

5X Herculase II Reaction Buffer with dNTPs

Not applicable.

Storage

: 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

Not applicable.

Not applicable.

Not applicable. Not applicable.

Not applicable.

Not applicable.

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Section 2. Hazard identification

Disposal : SureSelect XT HS2 Blocker Not applicable. Mix

> SureSelect Fast Not applicable.

> Hybridization Buffer SureSelect RNase Block Not applicable.

> Not applicable. SureSelect Post-Capture Primer Mix

Herculase II Fusion DNA Not applicable. Polymerase

5X Herculase II Reaction Not applicable.

Buffer with dNTPs Supplemental label : SureSelect XT HS2 Blocker

elements Mix SureSelect Fast None known. Hybridization Buffer

SureSelect RNase Block None known. None known.

SureSelect Post-Capture Primer Mix

Herculase II Fusion DNA None known. Polymerase

5X Herculase II Reaction None known. Buffer with dNTPs

None known.

SureSelect Fast Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: Hybridization Buffer

31.3%

5X Herculase II Reaction Percentage of the mixture consisting of ingredient(s) Buffer with dNTPs of unknown hazards to the aquatic environment: 5.3%

SureSelect XT HS2 Blocker None known.

Other hazards which do not : result in classification Mix

SureSelect Fast None known.

Hybridization Buffer SureSelect RNase Block None known. SureSelect Post-Capture None known.

Primer Mix Herculase II Fusion DNA None known.

Polymerase 5X Herculase II Reaction None known.

Buffer with dNTPs

Section 3. Composition/information on ingredients

Substance/mixture : SureSelect XT HS2 Blocker Mixture

> Mix SureSelect Fast Mixture

Hybridization Buffer SureSelect RNase Block Mixture

SureSelect Post-Capture Mixture Primer Mix

Herculase II Fusion DNA Mixture Polymerase

5X Herculase II Reaction Mixture Buffer with dNTPs

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Section 3. Composition/information on ingredients

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 Trometamol Ammonium sulphate Hexadecan-1-ol, ethoxylated		77-86-1 7783-20-2 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. Fire	st-aid measures	
Description of necess	ary first aid measures	
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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	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. Get medical attention if irritation occurs.
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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

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SureSelect Post-Capture Primer Mix

Herculase II Fusion DNA Polymerase

5X Herculase II Reaction Buffer with dNTPs

: 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

: SureSelect XT HS2 Blocker Mix

SureSelect Fast Hybridization Buffer

SureSelect RNase Block

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.

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.

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.

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. 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.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. 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. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to

Skin contact

Ingestion

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

SureSelect 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

Herculase II Fusion DNA Polymerase

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.

5X Herculase II Reaction Buffer with dNTPs

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye 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 SureSelect Post-Capture

Causes eye irritation.

Primer Mix

No known significant effects or critical hazards.

Herculase II Fusion DNA

Causes eye irritation.

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

No known significant effects or critical hazards.

Inhalation

: 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 SureSelect Post-Capture

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

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

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Buffer with dNTPs

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

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 SureSelect Post-Capture

No known significant effects or critical hazards. 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

Over-exposure signs/symptoms

Ingestion

Eye contact : SureSelect XT HS2 Blocker No specific data.

Mix

SureSelect Fast No specific data.

Hybridization Buffer

SureSelect RNase Block Adverse symptoms may include the following:

> irritation watering redness No specific data.

SureSelect Post-Capture

Primer Mix Herculase II Fusion DNA

Polymerase

Adverse symptoms may include the following:

irritation watering redness

5X Herculase II Reaction

Buffer with dNTPs

No specific data.

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.

Buffer with dNTPs

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Ingestion

Skin contact : 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.

Buffer with dNTPs

: 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

Polymerase

5X Herculase II Reaction Buffer with dNTPs

No specific data.

No specific data.

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

: SureSelect XT HS2 Blocker Notes to physician Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been Mix

ingested or inhaled. SureSelect Fast

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed Hybridization Buffer

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 Treat symptomatically. Contact poison treatment Primer Mix

specialist immediately if large quantities have been

ingested or inhaled.

Herculase II Fusion DNA Treat symptomatically. Contact poison treatment Polymerase

specialist immediately if large quantities have been

ingested or inhaled.

5X Herculase II Reaction In case of inhalation of decomposition products in a Buffer with dNTPs fire, symptoms may be delayed. The exposed

person may need to be kept under medical

surveillance for 48 hours.

: SureSelect XT HS2 Blocker No specific treatment. **Specific treatments**

Mix

SureSelect Fast

Hybridization Buffer SureSelect RNase Block No specific treatment. SureSelect Post-Capture

Primer 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.

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Protection of first-aiders

: SureSelect XT HS2 Blocker

Mix

SureSelect Fast Hybridization Buffer SureSelect RNase Block 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.

SureSelect Post-Capture

Primer Mix

Herculase II Fusion DNA

Polymerase

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.

5X Herculase II Reaction

Buffer with dNTPs

No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: SureSelect XT HS2 Blocker

Mix

SureSelect Fast Hybridization Buffer SureSelect RNase Block 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.

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.

Use an extinguishing agent suitable for the

surrounding fire. None known.

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 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.

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.

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products : SureSelect XT HS2 Blocker

Mix

SureSelect Fast Hybridization Buffer No specific data.

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

SureSelect Post-Capture

Primer Mix

Herculase II Fusion DNA

Polymerase

carbon monoxide No specific data.

Decomposition products may include the following

Decomposition products may include the following

materials: carbon dioxide carbon monoxide

5X Herculase II Reaction

Buffer with dNTPs

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 action shall be taken involving any personal risk or

without suitable training.

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

without suitable training.

SureSelect 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

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 : SureSelect XT HS2 Blocker

Mix

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

pressure mode.

SureSelect 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.

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Section 5. Fire-fighting measures

SureSelect RNase Block Fire-fighters should wear appropriate protective

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

pressure mode.

SureSelect Post-Capture

Primer Mix

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

pressure mode.

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 spilled 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 spilled material. Put on appropriate personal

protective equipment.

SureSelect RNase Block

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or

mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SureSelect Post-Capture

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

Herculase II Fusion DNA

Polymerase

Primer Mix

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk

through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

5X Herculase II Reaction Buffer with dNTPs

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Section 6. Accidental release measures

For emergency responders: 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

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

Environmental precautions

: SureSelect XT HS2 Blocker

SureSelect Fast Hybridization Buffer

SureSelect RNase Block

SureSelect Post-Capture Primer Mix

Herculase II Fusion DNA Polymerase

5X Herculase II Reaction Buffer with dNTPs

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

soil or air).

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

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

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

soil or air).

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

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

soil or air).

Methods and materials for containment and cleaning up

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Section 6. Accidental release measures

Methods for cleaning up

: SureSelect XT HS2 Blocker

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

SureSelect RNase Block

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

SureSelect Post-Capture Primer Mix

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

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

: SureSelect XT HS2 Blocker Mix

SureSelect Fast Hybridization Buffer SureSelect RNase Block 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 vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

SureSelect Post-Capture Primer Mix

Herculase II Fusion DNA

Polymerase

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 vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers

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Section 7. Handling and storage

Advice on general occupational hygiene

Conditions for safe storage,

including any

incompatibilities

5X Herculase II Reaction

Buffer with dNTPs

: 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

Mix

: SureSelect XT HS2 Blocker

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

SureSelect Fast

retain product residue and can be hazardous. Do not reuse container.

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

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. 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

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.

before entering eating areas. See also Section 8 for

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.

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.

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

Store in accordance with local regulations. Store in

additional information on hygiene measures.

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Section 7. Handling and storage

Hybridization Buffer

SureSelect RNase Block

SureSelect Post-Capture Primer Mix

Herculase II Fusion DNA Polymerase

5X Herculase II Reaction Buffer with dNTPs

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

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SureSelect RNase Block	
Glycerol	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 10 mg/m ³ 8 hours. Form: Mist
	CA Quebec Provincial (Canada, 7/2019).
	TWAEV: 10 mg/m³ 8 hours. Form: mist
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 20 mg/m³ 15 minutes. Form: mist
	TWA: 10 mg/m³ 8 hours. Form: mist
	CA British Columbia Provincial (Canada,
	1/2021).
	TWA: 3 mg/m³ 8 hours. Form: respirable mist
	TWA: 10 mg/m³ 8 hours. Form: total mist
	TWA. 10 mg/m 6 hours. Form. total mist
Herculase II Fusion DNA Polymerase	
Glycerol	CA Alberta Provincial (Canada, 6/2018).
Glycorol	8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist
	CA Quebec Provincial (Canada, 7/2019).
	TWAEV: 10 mg/m ³ 8 hours. Form: mist
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 20 mg/m³ 15 minutes. Form: mist
	TWA: 10 mg/m ³ 8 hours. Form: mist
	CA British Columbia Provincial (Canada,
	1/2021).
	TWA: 3 mg/m³ 8 hours. Form: respirable
	mist
	TWA: 10 mg/m³ 8 hours. Form: total mist

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: chemical splash goggles.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Color

Odor

Physical state : SureSelect XT HS2 Blocker Liquid.

Mix

SureSelect Fast Liquid.

Hybridization Buffer

SureSelect RNase Block Liquid. SureSelect Post-Capture Liquid.

Primer Mix

Herculase II Fusion DNA Liquid.

Polymerase

5X Herculase II Reaction Liquid.

Buffer with dNTPs

: 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

5X Herculase II Reaction Not available.

Buffer with dNTPs

: 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

5X Herculase II Reaction Not available.

Buffer with dNTPs

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Odor threshold : 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 5X Herculase II Reaction Not available. Buffer with dNTPs : SureSelect XT HS2 Blocker 7.5

pН

Mix

SureSelect Fast Not available.

Hybridization Buffer

SureSelect RNase Block 7.6 SureSelect Post-Capture 7.5

Primer Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

: SureSelect XT HS2 Blocker 0°C (32°F)

Mix

SureSelect Fast Not available.

Hybridization Buffer

SureSelect RNase Block Not available. SureSelect Post-Capture 0°C (32°F)

Primer Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction Buffer with dNTPs

Not available. Not available.

Boiling point, initial boiling : SureSelect XT HS2 Blocker

Mix

100°C (212°F)

8.2

10

SureSelect Fast Hybridization Buffer

SureSelect RNase Block

Not available.

SureSelect Post-Capture Primer Mix

Not available. 100°C (212°F)

Herculase II Fusion DNA

Not available.

Polymerase

Not available.

5X Herculase II Reaction Buffer with dNTPs

Flash point

Melting point/freezing point

point, and boiling range

	Closed cup			Open 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-	177	350.6	

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			Martens		
SureSelect Post- Capture Primer 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

: SureSelect XT HS2 Blocker

Not available.

Mix

SureSelect Fast

Not available.

Hybridization Buffer

SureSelect RNase Block SureSelect Post-Capture Not available.

Not available.

Primer Mix

Herculase II Fusion DNA

Not available.

Polymerase

5X Herculase II Reaction

Not available.

Buffer with dNTPs

Flammability SureSelect XT HS2 Blocker Not applicable.

Mix

SureSelect Fast

Not applicable.

Hybridization Buffer

SureSelect RNase Block

Not applicable.

SureSelect Post-Capture

Not applicable.

Primer Mix

Herculase II Fusion DNA

Not applicable.

Polymerase

5X Herculase II Reaction

Not applicable.

Buffer with dNTPs

: SureSelect XT HS2 Blocker

Not available.

Lower and upper explosion limit/flammability limit

Mix

SureSelect Fast

Not available.

Hybridization Buffer

SureSelect RNase Block SureSelect Post-Capture

Not available. Not available.

Primer Mix

Herculase II Fusion DNA

Not available.

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

Not available.

Vapor pressure

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
SureSelect XT HS2 Blocker 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	

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1						
SureSelect Fast Hybridization Buffer						
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	
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	0.000027	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				
SureSelect XT HS2 E	Blocker	Not availa	able.			

Relative vapor density

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

Not available.

Relative density

: SureSelect XT HS2 Blocker

Mix

Not available.

SureSelect Fast Hybridization Buffer

SureSelect RNase Block

Not available. Not available.

SureSelect Post-Capture

Primer Mix

Not available. Herculase II Fusion DNA

Polymerase

Not available.

5X Herculase II Reaction

Buffer with dNTPs

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Solubility

: SureSelect XT HS2 Blocker

Mix

SureSelect Fast Hybridization Buffer SureSelect RNase Block and hot water.

Easily soluble in the following materials: cold water and hot water.

Easily soluble in the following materials: cold water

Easily soluble in the following materials: cold water

and hot water.

SureSelect Post-Capture

Primer Mix

Easily soluble in the following materials: cold water and hot water.

Herculase II Fusion DNA

Polymerase

Easily soluble in the following materials: cold water

and hot water.

5X Herculase II Reaction Buffer with dNTPs

Easily soluble in the following materials: cold water

and hot water. Not applicable.

Partition coefficient: noctanol/water

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

Not applicable.

Not applicable. Not applicable.

Not applicable.

Not applicable.

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- 1-ylethanesulphonic acid	>400	>752	EU A.16
SureSelect Post-Capture Primer Mix			
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

SureSelect Fast

Not available.

Not available.

Hybridization Buffer

SureSelect RNase Block SureSelect Post-Capture Not available. Not available.

Primer Mix

Herculase II Fusion DNA

Not available.

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

Not available.

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Viscosity

: SureSelect XT HS2 Blocker

Mix

SureSelect Fast Not available.

Hybridization Buffer

SureSelect RNase Block Not available. SureSelect Post-Capture Not available.

Primer Mix

Herculase II Fusion DNA

Polymerase

5X Herculase II Reaction

Buffer with dNTPs

Not available.

Not available.

Not available.

Particle characteristics Median particle size

: SureSelect XT HS2 Blocker

SureSelect Fast

Hybridization Buffer

SureSelect RNase Block SureSelect Post-Capture

Primer 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.

Section 10. Stability and reactivity

Reactivity

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

this product or its ingredients.

No specific test data related to reactivity available for 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.

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.

No specific test data related to reactivity available for

this product or its ingredients.

Chemical stability

: 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

The product is stable.

The product is stable.

The product is stable. The product is stable.

The product is stable.

The product is stable.

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Section 10. Stability and reactivity

Possibility of hazardous reactions

SureSelect XT HS2 Blocker Mix

SureSelect Fast

Hybridization Buffer SureSelect RNase Block

SureSelect Post-Capture Primer Mix

Herculase II Fusion DNA

Buffer with dNTPs

Polymerase 5X Herculase II Reaction

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

Under normal conditions of storage and use,

hazardous reactions will not occur.

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

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Conditions to avoid

: 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

No specific data.

No specific data.

No specific data. No specific data.

No specific data.

No specific data.

Incompatible materials

: 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

May react or be incompatible with oxidizing materials.

May react or be incompatible with oxidizing materials.

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

May react or be incompatible with oxidizing materials.

May react or be incompatible with oxidizing materials.

Hazardous decomposition products

SureSelect XT HS2 Blocker

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

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.

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Information on toxicological effects

Acute toxicity

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 Trometamol Ammonium sulphate Hexadecan-1-ol, ethoxylated	LD50 Dermal LD50 Oral LD50 Oral	Rat Rat Rat	>5000 mg/kg 2840 mg/kg 2500 mg/kg	- - -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
5X Herculase II Reaction Buffer with dNTPs					
Trometamol	Skin - Moderate irritant	Rabbit	_	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Trometamol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: 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

Not available.

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

Ingestion

: 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

: 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

: 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

: SureSelect XT HS2 Blocker

Mix SureSelect Fast

Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture

Primer Mix

Herculase II Fusion DNA

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Causes eye irritation.

No known significant effects or critical hazards.

Causes 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.

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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Polymerase

5X Herculase II Reaction

Buffer with dNTPs

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : SureSelect XT HS2 Blocker No specific data.

Mix

SureSelect Fast No specific data.

Hybridization Buffer

SureSelect RNase Block Adverse symptoms may include the following:

No specific data.

irritation watering redness

SureSelect Post-Capture

Primer Mix

Herculase II Fusion DNA

Polymerase

Adverse symptoms may include the following:

irritation watering redness

5X Herculase II Reaction No specific data.

Buffer with dNTPs

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

Buffer with dNTPs

No specific data.

Skin contact : 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

Polymerase

No specific data.

5X Herculase II Reaction

Buffer with dNTPs

No specific data.

Ingestion : 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

Polymerase

No specific data.

No specific data.

5X Herculase II Reaction

Buffer with dNTPs

Delayed and immediate effects and also chronic effects from short and long term exposure

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Short term exposure

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Carcinogenicity

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General

: 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

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

Mutagenicity : 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

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

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.

Numerical measures of toxicity Acute toxicity estimates

Reproductive toxicity

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Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (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	118512.9	N/A	N/A	N/A	N/A
Ammonium sulphate	2840	N/A	N/A	N/A	N/A
Hexadecan-1-ol, ethoxylated	2500	N/A	N/A	N/A	N/A

Other information

: SureSelect XT HS2 Blocker

Not available.

Mix

SureSelect Fast

Not available.

Hybridization Buffer

SureSelect RNase Block

Adverse symptoms may include the following: May

cause skin sensitization.

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			
Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours
Ammonium sulphate	Chronic NOEC 7.5 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours

Persistence and degradability

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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		-	-
5X Herculase II Reaction Buffer with dNTPs Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 2	28 days	30 mg/l	-
Product/ingredient name	Aquatic half-life		Photolysi	<u> </u>	Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
5X Herculase II Reaction Buffer with dNTPs			
Trometamol Ammonium sulphate	-		Readily Readily
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
5X Herculase II Reaction Buffer with dNTPs Trometamol Ammonium sulphate	-2.31 -5.1	- -	low low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

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Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

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. : Not determined. **Europe**

: Japan inventory (CSCL): Not determined. Japan

Japan inventory (ISHL): Not determined.

New Zealand Not determined. **Philippines** Not determined. Republic of Korea Not determined.

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Section 15. Regulatory information

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Other information

History

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Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

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

N/A = Not available UN = United Nations

Procedure used to derive the classification

Classification	Justification
SureSelect RNase Block EYE IRRITATION - Category 2B	Calculation method
Herculase II Fusion DNA Polymerase EYE IRRITATION - Category 2B	Calculation method

References : Not available.

▼ Indicates information that has changed from previously issued version.

Notice to reader

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