

# SAFETY DATA SHEET



Early Access SureSelect XT HS Target Enrichment Kit, ILM Hyb Module, Box 2,  
96 rxn, Part Number 5190-9535

## Section 1. Identification

<b>Product identifier</b>	: Early Access SureSelect XT HS Target Enrichment Kit, ILM Hyb Module, Box 2, 96 rxn, Part Number 5190-9535		
<b>Part No. (Chemical Kit)</b>	: 5190-9535		
<b>Part No.</b>	SureSelect XT HS Blocker Mix	5190-9534	
	SureSelect Fast Hybridization Buffer	5190-7330	
	SureSelect RNase Block	5972-3700	
	SureSelect PCR Primer Mix	5190-8831	

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

Analytical reagent.

SureSelect XT HS Blocker Mix	0.48 mL
SureSelect Fast Hybridization Buffer	0.77 mL
SureSelect RNase Block	0.08 mL
SureSelect PCR Primer Mix	3 x 0.048 mL (16 reactions)

<b>Supplier/Manufacturer</b>	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402
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<b>Emergency telephone number (with hours of operation)</b>	: CHEMTREC®: (61)-290372994
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## Section 2. Hazard(s) identification

### Classification of the substance or mixture

Not classified.

SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.6%
SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%

### GHS label elements

<b>Signal word</b>	: SureSelect XT HS Blocker Mix	No signal word.
	SureSelect Fast Hybridization Buffer	No signal word.
	SureSelect RNase Block	No signal word.
	SureSelect PCR Primer Mix	No signal word.
<b>Hazard statements</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.

### Precautionary statements

## Section 2. Hazard(s) identification

<b>Prevention</b>	:	SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Response</b>	:	SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Storage</b>	:	SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	:	SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	:	SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Other hazards which do not result in classification</b>	:	SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	None known. None known. None known. None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	:	SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Mixture Mixture Mixture Mixture
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### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
SureSelect RNase Block Glycerol	≥30 - ≤60	56-81-5

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

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: SureSelect XT HS 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 PCR 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.
<b>Inhalation</b>	: SureSelect XT HS 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 PCR Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: SureSelect XT HS Blocker Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Fast 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 PCR Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: SureSelect XT HS Blocker Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Fast Hybridization Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect RNase Block	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of

## Section 4. First aid measures

SureSelect PCR Primer Mix

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 victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Inhalation</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Skin contact</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Ingestion</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer Mix	No specific data.
<b>Inhalation</b>	: SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer Mix	No specific data.
<b>Skin contact</b>	: SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer Mix	No specific data.

## Section 4. First aid measures

<b>Ingestion</b>	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. No specific data. No specific data.
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>		
<b>Notes to physician</b>	: SureSelect XT HS Blocker Mix  SureSelect Fast Hybridization Buffer  SureSelect RNase Block  SureSelect PCR Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.  Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific treatment. No specific treatment. No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block  SureSelect PCR Primer Mix	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.  No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block  SureSelect PCR Primer Mix	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	None known. None known. None known. None known.

## Section 5. Firefighting measures

<b>Specific hazards arising from the chemical</b>	: SureSelect XT HS Blocker Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Fast Hybridization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect PCR Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: SureSelect XT HS 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 carbon monoxide
	SureSelect PCR Primer Mix	No specific data.
<b>Special protective actions for fire-fighters</b>	: SureSelect XT HS 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 PCR 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.
<b>Special protective equipment for fire-fighters</b>	: SureSelect XT HS 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.
	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 PCR 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.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: SureSelect XT HS 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 PCR 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.
<b>For emergency responders</b>	: SureSelect XT HS Blocker Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect 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".
	SureSelect RNase Block	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect PCR Primer Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>Environmental precautions</b>	: SureSelect XT HS Blocker Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureSelect 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, soil or air).
	SureSelect RNase Block	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 PCR 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).

## Section 6. Accidental release measures

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: SureSelect XT HS 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	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 PCR 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.

## Section 7. Handling and storage

### Precautions for safe handling

<b>Protective measures</b>	: SureSelect XT HS Blocker Mix	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Fast Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8).
	SureSelect PCR Primer Mix	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: SureSelect XT HS 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 contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect PCR Primer Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face



## Section 7. Handling and storage

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 HS 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.

SureSelect Fast Hybridization Buffer

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

SureSelect RNase Block

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.

SureSelect PCR Primer Mix

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

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
SureSelect RNase Block Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

## Section 8. Exposure controls and personal protection

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

## Section 9. Physical and chemical properties

### Appearance

- |                        |                                      |                |
|------------------------|--------------------------------------|----------------|
| <b>Physical state</b>  | SureSelect XT HS Blocker Mix         | Liquid.        |
|                        | SureSelect Fast Hybridization Buffer | Liquid.        |
|                        | SureSelect RNase Block               | Liquid.        |
|                        | SureSelect PCR Primer Mix            | Liquid.        |
|                        |                                      |                |
| <b>Colour</b>          | SureSelect XT HS Blocker Mix         | Not available. |
|                        | SureSelect Fast Hybridization Buffer | Not available. |
|                        | SureSelect RNase Block               | Not available. |
|                        | SureSelect PCR Primer Mix            | Not available. |
|                        |                                      |                |
| <b>Odour</b>           | SureSelect XT HS Blocker Mix         | Not available. |
|                        | SureSelect Fast Hybridization Buffer | Not available. |
|                        | SureSelect RNase Block               | Not available. |
|                        | SureSelect PCR Primer Mix            | Not available. |
|                        |                                      |                |
| <b>Odour threshold</b> | SureSelect XT HS Blocker Mix         | Not available. |
|                        | SureSelect Fast Hybridization Buffer | Not available. |
|                        | SureSelect RNase Block               | Not available. |
|                        | SureSelect PCR Primer Mix            | Not available. |
|                        |                                      |                |
| <b>pH</b>              |                                      |                |

## Section 9. Physical and chemical properties

	SureSelect XT HS Blocker Mix	7.5
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	7.6
	SureSelect PCR Primer Mix	7.5
<b>Melting point</b>	: SureSelect XT HS Blocker Mix	0°C (32°F)
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	0°C (32°F)
<b>Boiling point</b>	: SureSelect XT HS Blocker Mix	100°C (212°F)
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	100°C (212°F)
<b>Flash point</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
<b>Evaporation rate</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
<b>Flammability (solid, gas)</b>	: SureSelect XT HS Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
<b>Vapour pressure</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
<b>Vapour density</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
<b>Relative density</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.

## Section 9. Physical and chemical properties

<b>Solubility</b>	: SureSelect XT HS Blocker Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect Fast Hybridization Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect RNase Block	Soluble in the following materials: cold water and hot water.
	SureSelect PCR Primer Mix	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
<b>Auto-ignition temperature</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
<b>Decomposition temperature</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
<b>Viscosity</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: SureSelect XT HS Blocker Mix	No specific test data related to reactivity available for 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 this product or its ingredients.
	SureSelect PCR Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: SureSelect XT HS Blocker Mix	The product is stable.
	SureSelect Fast Hybridization Buffer	The product is stable.
	SureSelect RNase Block	The product is stable.
	SureSelect PCR Primer Mix	The product is stable.
<b>Possibility of hazardous reactions</b>	: SureSelect XT HS Blocker Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Fast Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect PCR Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

<b>Conditions to avoid</b>	: SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer Mix	No specific data.
<b>Incompatible materials</b>	: SureSelect XT HS 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	May react or be incompatible with oxidising materials.
	SureSelect PCR Primer Mix	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: SureSelect XT HS 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 PCR Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

## Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	SureSelect RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation.
	SureSelect PCR Primer Mix	Not available.

### Potential acute health effects

<b>Eye contact</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Inhalation</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Skin contact</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Ingestion</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer Mix	No specific data.
<b>Inhalation</b>	: SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer Mix	No specific data.
<b>Skin contact</b>	: SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer Mix	No specific data.

## Section 11. Toxicological information

<b>Ingestion</b>	: SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer Mix	No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

<b>General</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Developmental effects</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.
<b>Fertility effects</b>	: SureSelect XT HS 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 PCR Primer Mix	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

## Section 11. Toxicological information

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

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
SureSelect RNase Block Glycerol	-1.76	-	low

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

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

## Section 13. Disposal considerations

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

## Section 14. Transport information

### Regulatory information

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

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

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



## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

**Australia inventory (AICS)** : Not determined.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### International lists

#### National inventory

<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 14/09/2016

**Date of previous issue** : No previous validation.

**Version** : 1

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

## Section 16. Any other relevant information

### [Procedure used to derive the classification](#)

Classification	Justification
Not classified.	

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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