

# SAFETY DATA SHEET

SureSelect XT Fast Target Enrichment Kit-ILM Hyb Module Box 2

## Section 1. Identification

**Product identifier** : SureSelect XT Fast Target Enrichment Kit-ILM Hyb Module Box 2

**Part no. (chemical kit)** : 5190-8836, 5190-8839

**Part no.** : SureSelect Fast Blocker Mix 5190-8835 / 5190-8838  
 SureSelect Fast Hybridization Buffer 5190-7327 / 5190-7330  
 SureSelect RNase Block 5190-4383 / 5972-3700

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

**Material uses** : Analytical reagent.

SureSelect Fast Blocker Mix 0.08 ml - 0.64 ml  
 SureSelect Fast Hybridization Buffer 0.45 ml - 0.918 ml  
 SureSelect RNase Block 0.016 ml - 0.08 ml

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
 679 Springvale Road  
 Mulgrave  
 Victoria 3170, Australia  
 1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

Not classified.

SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
SureSelect RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%

### GHS label elements

**Signal word** : SureSelect Fast Blocker Mix No signal word.  
 SureSelect Fast Hybridization Buffer No signal word.  
 SureSelect RNase Block No signal word.

**Hazard statements** : SureSelect Fast 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.

**Precautionary statements**

**Prevention** : SureSelect Fast Blocker Mix Not applicable.  
 SureSelect Fast Hybridization Buffer Not applicable.  
 SureSelect RNase Block Not applicable.

## Section 2. Hazard(s) identification

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

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: SureSelect Fast Blocker Mix	Mixture
	SureSelect Fast	Mixture
	Hybridization Buffer	
	SureSelect RNase Block	Mixture

### 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 Fast 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	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.
	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.

## Section 4. First aid measures

<b>Inhalation</b>	: SureSelect Fast 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.
<b>Skin contact</b>	: SureSelect Fast 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.
<b>Ingestion</b>	: SureSelect Fast 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 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 Fast 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.
<b>Inhalation</b>	: SureSelect Fast 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.
<b>Skin contact</b>	: SureSelect Fast 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.
<b>Ingestion</b>	: SureSelect Fast 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.

## Section 4. First aid measures

### Over-exposure signs/symptoms

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

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

<b>Notes to physician</b>	: SureSelect Fast Blocker Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Fast	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.
	Hybridization Buffer	
<b>Specific treatments</b>	: SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Fast Blocker Mix	No specific treatment.
	SureSelect Fast	No specific treatment.
<b>Protection of first-aiders</b>	: Hybridization Buffer	No specific treatment.
	SureSelect Fast Blocker Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Fast	No action shall be taken involving any personal risk or without suitable training.
	Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

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

## Section 5. Firefighting measures

<b>Specific hazards arising from the chemical</b>	: SureSelect Fast 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.
<b>Hazardous thermal decomposition products</b>	: SureSelect Fast 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
<b>Special protective actions for fire-fighters</b>	: SureSelect Fast 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.
<b>Special protective equipment for fire-fighters</b>	: SureSelect Fast 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.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: SureSelect Fast 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

## Section 6. Accidental release measures

		personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: SureSelect Fast 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".
<b>Environmental precautions</b>	: SureSelect Fast 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).

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: SureSelect Fast 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.

## Section 7. Handling and storage

### Precautions for safe handling

<b>Protective measures</b>	: SureSelect Fast 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).

## Section 7. Handling and storage

### Advice on general occupational hygiene

: SureSelect Fast 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.

### Conditions for safe storage, including any incompatibilities

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

## Section 8. Exposure controls and personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

Ingredient name	Exposure limits
SureSelect RNase Block Glycerol	<b>Safe Work Australia (Australia, 4/2018).</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.
- 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](#)

- Physical state** : SureSelect Fast Blocker Mix    Liquid.  
SureSelect Fast                            Liquid.  
Hybridization Buffer  
SureSelect RNase Block            Liquid.
- Colour** : SureSelect Fast Blocker Mix    Not available.  
SureSelect Fast                            Not available.  
Hybridization Buffer  
SureSelect RNase Block            Not available.
- Odour** : SureSelect Fast Blocker Mix    Not available.  
SureSelect Fast                            Not available.  
Hybridization Buffer  
SureSelect RNase Block            Not available.

## Section 9. Physical and chemical properties

<b>Odour threshold</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>pH</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	7.6
<b>Melting point</b>	: SureSelect Fast Blocker Mix	0°C (32°F)
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Boiling point</b>	: SureSelect Fast Blocker Mix	100°C (212°F)
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Flash point</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Evaporation rate</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Flammability (solid, gas)</b>	: SureSelect Fast Blocker Mix	Not applicable.
	SureSelect Fast	Not applicable.
	Hybridization Buffer	
	SureSelect RNase Block	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Vapour pressure</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Vapour density</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Relative density</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Solubility</b>	: SureSelect Fast Blocker Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect Fast	Easily soluble in the following materials: cold water and hot water.
	Hybridization Buffer	
	SureSelect RNase Block	Soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Auto-ignition temperature</b>	: SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.

## Section 9. Physical and chemical properties

<b>Decomposition temperature</b>	SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
<b>Viscosity</b>	SureSelect Fast Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	SureSelect Fast Blocker Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Fast	No specific test data related to reactivity available for this product or its ingredients.
	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.
<b>Chemical stability</b>	SureSelect Fast Blocker Mix	The product is stable.
	SureSelect Fast	The product is stable.
	Hybridization Buffer	
	SureSelect RNase Block	The product is stable.
<b>Possibility of hazardous reactions</b>	SureSelect Fast Blocker Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Fast	Under normal conditions of storage and use, hazardous reactions will not occur.
	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.
<b>Conditions to avoid</b>	SureSelect Fast Blocker Mix	No specific data.
	SureSelect Fast	No specific data.
	Hybridization Buffer	
	SureSelect RNase Block	No specific data.
<b>Incompatible materials</b>	SureSelect Fast Blocker Mix	May react or be incompatible with oxidising materials.
	SureSelect Fast	May react or be incompatible with oxidising materials.
	Hybridization Buffer	
	SureSelect RNase Block	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	SureSelect Fast Blocker Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Fast	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	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.

## 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

## Section 11. Toxicological information

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	-

### Sensitisation

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)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : SureSelect Fast Blocker Mix Not available.  
SureSelect Fast Routes of entry anticipated: Oral, Dermal, Inhalation.  
Hybridization Buffer  
SureSelect RNase Block Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Eye contact** : SureSelect Fast Blocker Mix No known significant effects or critical hazards.  
SureSelect Fast No known significant effects or critical hazards.  
Hybridization Buffer  
SureSelect RNase Block No known significant effects or critical hazards.

**Inhalation** : SureSelect Fast Blocker Mix No known significant effects or critical hazards.  
SureSelect Fast No known significant effects or critical hazards.  
Hybridization Buffer  
SureSelect RNase Block No known significant effects or critical hazards.

**Skin contact** : SureSelect Fast Blocker Mix No known significant effects or critical hazards.  
SureSelect Fast No known significant effects or critical hazards.  
Hybridization Buffer  
SureSelect RNase Block No known significant effects or critical hazards.

**Ingestion** : SureSelect Fast Blocker Mix No known significant effects or critical hazards.  
SureSelect Fast No known significant effects or critical hazards.  
Hybridization Buffer  
SureSelect RNase Block No known significant effects or critical hazards.

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

**Eye contact** : SureSelect Fast Blocker Mix No specific data.  
SureSelect Fast No specific data.  
Hybridization Buffer  
SureSelect RNase Block No specific data.

## Section 11. Toxicological information

<b>Inhalation</b>	: SureSelect Fast Blocker Mix	No specific data.
	SureSelect Fast	No specific data.
	Hybridization Buffer	
<b>Skin contact</b>	: SureSelect RNase Block	No specific data.
	SureSelect Fast Blocker Mix	No specific data.
	SureSelect Fast	No specific data.
<b>Ingestion</b>	: Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Fast Blocker 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

<b>General</b>	: SureSelect Fast Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: SureSelect Fast Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: SureSelect Fast Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: SureSelect Fast Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
<b>Developmental effects</b>	: SureSelect Fast Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
<b>Fertility effects</b>	: SureSelect Fast Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SureSelect RNase Block Glycerol	12600	N/A	N/A	N/A	N/A

## Section 11. Toxicological information

## 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

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect RNase Block Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

### 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

**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

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

No listed substance

### International regulations

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

Not listed.

#### Montreal Protocol (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.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<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> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: Not determined.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 19/12/2019

**Date of previous issue** : 17/11/2017

**Version** : 3

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 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

## Section 16. Any other relevant information

SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### 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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