

# SAFETY DATA SHEET



Beta SureSelect Max Target Enrichment Kit Fast Hyb Module, Box 2, 16 Hybs, Part Number 5280-0062

## Section 1. Identification

Product identifier	: Beta SureSelect Max Target Enrichment Kit Fast Hyb Module, Box 2, 16 Hybs, Part Number 5280-0062
Part no. (chemical kit)	: 5280-0062
Part no.	: SureSelect Max Fast Hyb Buffer, 16 Hybs 52RD-0063 SureSelect RNase Block 5190-4383 Blocker Mix, ILM 52RD-0066 SureSelect Post- Capture Primer Mix 5190-9730 Amplification Master Mix 7K0014-384

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

Identified uses	: Analytical reagent. For research use only. SureSelect Max Fast Hyb Buffer, 16 Hybs 0.108 ml SureSelect RNase Block 0.016 ml Blocker Mix, ILM 0.08 ml (16 reactions) SureSelect Post- Capture Primer Mix 0.016 ml (16 reactions) Amplification Master Mix 0.45 ml (16 reactions)
Uses advised against	: Not for use in diagnostic procedures.

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

Classification of the substance or mixture

**SureSelect Max Fast Hyb Buffer, 16 Hybs**

H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

**SureSelect RNase Block**  
H320

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

**Amplification Master Mix**

H302	ACUTE TOXICITY (oral) - Category 4
H315	SKIN CORROSION/IRRITATION - Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
H371	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

SureSelect Max Fast Hyb Buffer, 16 Hybs	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 20.3%
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GHS label elements

## Section 2. Hazard(s) identification

### Hazard pictograms

: SureSelect Max Fast Hyb Buffer, 16 Hybs



Amplification Master Mix



### Signal word

: SureSelect Max Fast Hyb Buffer, 16 Hybs  
SureSelect RNase Block Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

WARNING

WARNING

No signal word.

No signal word.

WARNING

### Hazard statements

: SureSelect Max Fast Hyb Buffer, 16 Hybs

H400 - Very toxic to aquatic life.

SureSelect RNase Block Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

H411 - Toxic to aquatic life with long lasting effects.

H320 - Causes eye irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H371 - May cause damage to organs.

H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

: SureSelect Max Fast Hyb Buffer, 16 Hybs  
SureSelect RNase Block Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

P273 - Avoid release to the environment.

Not applicable.

Not applicable.

Not applicable.

P280 - Wear protective gloves. Wear eye or face protection.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

P270 - Do not eat, drink or smoke when using this product.

#### Response

: SureSelect Max Fast Hyb Buffer, 16 Hybs  
SureSelect RNase Block

P391 - Collect spillage.

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.

Not applicable.

Not applicable.

Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.

#### Storage

: SureSelect Max Fast Hyb Buffer, 16 Hybs  
SureSelect RNase Block Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

## Section 2. Hazard(s) identification

<b>Disposal</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SureSelect RNase Block	Not applicable.
	Blocker Mix, ILM	Not applicable.
	SureSelect Post- Capture Primer Mix	Not applicable.
	Amplification Master Mix	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Supplemental label elements

<b>Additional warning phrases</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Not applicable.
	SureSelect RNase Block	Not applicable.
	Blocker Mix, ILM	Not applicable.
	SureSelect Post- Capture Primer Mix	Not applicable.
	Amplification Master Mix	Not applicable.

<b>Other hazards which do not result in classification</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	None known.
	SureSelect RNase Block	None known.
	Blocker Mix, ILM	None known.
	SureSelect Post- Capture Primer Mix	None known.
	Amplification Master Mix	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Mixture
	SureSelect RNase Block	Mixture
	Blocker Mix, ILM	Mixture
	SureSelect Post- Capture Primer Mix	Mixture
	Amplification Master Mix	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b>		
Ammonium chloride	≤3	12125-02-9
<b>SureSelect RNase Block</b>		
Glycerol	≥30 - ≤60	56-81-5
<b>Amplification Master Mix</b>		
Glycerol	≥30 - ≤60	56-81-5
Trometamol	≤10	77-86-1
tetramethylammonium chloride	<10	75-57-0

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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

## Section 3. Composition and ingredient information

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 Max Fast Hyb Buffer, 16 Hybs	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.
	Blocker Mix, ILM	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Post- Capture Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Amplification Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
<b>Inhalation</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.
	Blocker Mix, ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Post- Capture Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Amplification Master Mix	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 following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be

## Section 4. First aid measures

### Skin contact

: SureSelect Max Fast Hyb Buffer, 16 Hybs

delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SureSelect RNase Block

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Blocker Mix, ILM

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.

SureSelect Post- Capture Primer Mix

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Amplification Master Mix

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Ingestion

: SureSelect Max Fast Hyb Buffer, 16 Hybs

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.

SureSelect RNase Block

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.

Blocker Mix, ILM

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

SureSelect Post- Capture Primer Mix

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

Amplification Master Mix

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 necessary, call a poison center or physician. 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,

## Section 4. First aid measures

belt or waistband.

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

#### Potential acute health effects

<b>Eye contact</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye irritation.
<b>Inhalation</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	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. May cause damage to organs following a single exposure if inhaled.
<b>Skin contact</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	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. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation.
<b>Ingestion</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	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. Harmful if swallowed. May cause damage to organs following a single exposure if swallowed.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	No specific data. No specific data. No specific data. No specific data.

## Section 4. First aid measures

<b>Skin contact</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	No specific data.

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

<b>Notes to physician</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Blocker Mix, ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Post- Capture Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Amplification Master Mix	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.
<b>Specific treatments</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific treatment.
	SureSelect RNase Block	No specific treatment.
	Blocker Mix, ILM	No specific treatment.
	SureSelect Post- Capture Primer Mix	No specific treatment.
	Amplification Master Mix	No specific treatment.
<b>Protection of first-aiders</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Blocker Mix, ILM	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Post- Capture Primer Mix	No action shall be taken involving any personal risk or without suitable training.
	Amplification Master Mix	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

SureSelect Max Fast Hyb Buffer, 16 Hybs	Use an extinguishing agent suitable for the surrounding fire.
SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
Blocker Mix, ILM	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Post- Capture Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
Amplification Master Mix	Use an extinguishing agent suitable for the surrounding fire.

#### Unsuitable extinguishing media

SureSelect Max Fast Hyb Buffer, 16 Hybs	None known.
SureSelect RNase Block	None known.
Blocker Mix, ILM	None known.
SureSelect Post- Capture Primer Mix	None known.
Amplification Master Mix	None known.

#### Specific hazards arising from the chemical

SureSelect Max Fast Hyb Buffer, 16 Hybs	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
Blocker Mix, ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Post- Capture Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Amplification Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

#### Hazardous thermal decomposition products

SureSelect Max Fast Hyb Buffer, 16 Hybs	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
Blocker Mix, ILM	No specific data.
SureSelect Post- Capture Primer Mix	No specific data.
Amplification Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds

## Section 5. Firefighting measures

<b>Special protective actions for fire-fighters</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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.
	Blocker Mix, ILM	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.
	Amplification Master 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 Max Fast Hyb Buffer, 16 Hybs	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.
	Blocker Mix, ILM	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.
	Amplification Master 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 Max Fast Hyb Buffer, 16 Hybs	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Blocker Mix, ILM	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

## Section 6. Accidental release measures

	SureSelect Post- Capture Primer Mix	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 spilt material. Put on appropriate personal protective equipment.
	Amplification Master 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	SureSelect Max Fast Hyb Buffer, 16 Hybs	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".
	Blocker Mix, ILM	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 Post- Capture 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".
	Amplification Master 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 Max Fast Hyb Buffer, 16 Hybs	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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
	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).
	Blocker Mix, ILM	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureSelect Post- Capture Primer Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Amplification Master 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). Water polluting material. May be harmful

## Section 6. Accidental release measures

to the environment if released in large quantities.

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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.
	Blocker Mix, ILM	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.
	Amplification Master 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 Max Fast Hyb Buffer, 16 Hybs	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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 RNase Block	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Blocker Mix, ILM	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Post- Capture Primer Mix	Put on appropriate personal protective equipment (see Section 8).
	Amplification Master Mix	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear

## Section 7. Handling and storage

	<p>appropriate respirator. 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
<b>Advice on general occupational hygiene</b>	<p>: SureSelect Max Fast Hyb Buffer, 16 Hybs</p> <p>SureSelect RNase Block</p> <p>Blocker Mix, ILM</p> <p>SureSelect Post- Capture Primer Mix</p> <p>Amplification Master Mix</p>	
<b>Conditions for safe storage, including any incompatibilities</b>	<p>: SureSelect Max Fast Hyb Buffer, 16 Hybs</p> <p>SureSelect RNase Block</p>	<p>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.</p> <p>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.</p>

## Section 7. Handling and storage

Blocker Mix, ILM

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 Post- Capture  
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. See Section 10 for incompatible materials before handling or use.

Amplification Master 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. Store locked up. 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](#)

<a href="#">Ingredient name</a>	<a href="#">Exposure limits</a>
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b> Ammonium chloride	<b>Safe Work Australia (Australia, 10/2022).</b> STEL: 20 mg/m <sup>3</sup> 15 minutes. Form: Fume TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Fume
<b>SureSelect RNase Block</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Amplification Master Mix</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

### [Biological exposure indices](#)

No exposure indices known.

### [Appropriate engineering controls](#)

- If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## 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: chemical splash goggles.

### 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. 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

<b>Physical state</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Liquid.
	SureSelect RNase Block	Liquid.
	Blocker Mix, ILM	Liquid.
	SureSelect Post- Capture Primer Mix	Liquid.
	Amplification Master Mix	Liquid.
<b>Colour</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Not available.
	SureSelect RNase Block	Not available.
	Blocker Mix, ILM	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	Amplification Master Mix	Not available.

## Section 9. Physical and chemical properties and safety characteristics

**Odour** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.

SureSelect RNase Block Not available.

Blocker Mix, ILM Not available.

SureSelect Post- Capture Primer Mix Not available.

Amplification Master Mix Not available.

**Odour threshold** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.

SureSelect RNase Block Not available.

Blocker Mix, ILM Not available.

SureSelect Post- Capture Primer Mix Not available.

Amplification Master Mix Not available.

**pH** : SureSelect Max Fast Hyb Buffer, 16 Hybs 7.5

SureSelect RNase Block 7.6

Blocker Mix, ILM 7.5

SureSelect Post- Capture Primer Mix 7.5

Amplification Master Mix 8.5

**Melting point/freezing point** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.

SureSelect RNase Block Not available.

Blocker Mix, ILM 0°C (32°F)

SureSelect Post- Capture Primer Mix 0°C (32°F)

Amplification Master Mix Not available.

**Boiling point, initial boiling point, and boiling range** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.

SureSelect RNase Block Not available.

Blocker Mix, ILM 100°C (212°F)

SureSelect Post- Capture Primer Mix 100°C (212°F)

Amplification Master Mix Not available.

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>SureSelect RNase Block</b>						
Glycerol	-	-	-	177	350.6	-
<b>Amplification Master Mix</b>						
Glycerol	-	-	-	177	350.6	-

**Evaporation rate** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.

SureSelect RNase Block Not available.

Blocker Mix, ILM Not available.

SureSelect Post- Capture Primer Mix Not available.

Amplification Master Mix Not available.

## Section 9. Physical and chemical properties and safety characteristics

**Flammability** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not applicable.  
 SureSelect RNase Block Not applicable.  
 Blocker Mix, ILM Not applicable.  
 SureSelect Post- Capture Primer Mix Not applicable.  
 Amplification Master Mix Not applicable.

**Lower and upper explosion limit/flammability limit** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.  
 SureSelect RNase Block Not available.  
 Blocker Mix, ILM Not available.  
 SureSelect Post- Capture Primer Mix Not available.  
 Amplification Master Mix Not available.

Vapour pressure	Ingredient name	Vapour Pressure at 20 °C			Vapour pressure at 50 °C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b>						
	water	17.5	2.3	-	92.258	12.3	-
	<b>SureSelect RNase Block</b>						
	water	17.5	2.3	-	92.258	12.3	-
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	<b>Blocker Mix, ILM</b>						
	water	17.5	2.3	-	92.258	12.3	-
	<b>SureSelect Post-Capture Primer Mix</b>						
	water	17.5	2.3	-	92.258	12.3	-
	<b>Amplification Master Mix</b>						
	water	17.5	2.3	-	92.258	12.3	-
	Trometamol	<0.00075006	<0.0001	-	-	-	-

**Relative vapour density** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.  
 SureSelect RNase Block Not available.  
 Blocker Mix, ILM Not available.  
 SureSelect Post- Capture Primer Mix Not available.  
 Amplification Master Mix Not available.

## Section 9. Physical and chemical properties and safety characteristics

**Relative density** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.  
 SureSelect RNase Block Not available.  
 Blocker Mix, ILM Not available.  
 SureSelect Post- Capture Primer Mix Not available.  
 Amplification Master Mix Not available.

<b>Solubility(ies)</b>	<b>Media</b>	<b>Result</b>
	<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b>	
	water	Soluble
	<b>SureSelect RNase Block</b>	
	water	Soluble
	<b>Blocker Mix, ILM</b>	
	water	Soluble
	<b>SureSelect Post- Capture Primer Mix</b>	
	water	Soluble
	<b>Amplification Master Mix</b>	
	water	Soluble

**Partition coefficient: n-octanol/water** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not applicable.  
 SureSelect RNase Block Not applicable.  
 Blocker Mix, ILM Not applicable.  
 SureSelect Post- Capture Primer Mix Not applicable.  
 Amplification Master Mix Not applicable.

<b>Auto-ignition temperature</b>	<b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
	<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b>			
	Ammonium chloride	>400	>752	EU A.16
	<b>SureSelect RNase Block</b>			
	Glycerol	370	698	-
	<b>Amplification Master Mix</b>			
	Glycerol	370	698	-

**Decomposition temperature** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.  
 SureSelect RNase Block Not available.  
 Blocker Mix, ILM Not available.  
 SureSelect Post- Capture Primer Mix Not available.  
 Amplification Master Mix Not available.

**Viscosity** : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.  
 SureSelect RNase Block Not available.  
 Blocker Mix, ILM Not available.  
 SureSelect Post- Capture Primer Mix Not available.  
 Amplification Master Mix Not available.

### Particle characteristics

## Section 9. Physical and chemical properties and safety characteristics

<b>Median particle size</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Not applicable.
	SureSelect RNase Block	Not applicable.
	Blocker Mix, ILM	Not applicable.
	SureSelect Post- Capture Primer Mix	Not applicable.
	Amplification Master Mix	Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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.
	Blocker Mix, ILM	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Post- Capture Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
	Amplification Master Mix	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	The product is stable.
	SureSelect RNase Block	The product is stable.
	Blocker Mix, ILM	The product is stable.
	SureSelect Post- Capture Primer Mix	The product is stable.
	Amplification Master Mix	The product is stable.
<b>Possibility of hazardous reactions</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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.
	Blocker Mix, ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Post- Capture Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Amplification Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	No specific data.
<b>Incompatible materials</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	May react or be incompatible with oxidising materials.
	SureSelect RNase Block	May react or be incompatible with oxidising materials.
	Blocker Mix, ILM	May react or be incompatible with oxidising materials.
	SureSelect Post- Capture Primer Mix	May react or be incompatible with oxidising materials.
	Amplification Master Mix	May react or be incompatible with oxidising materials.

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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.
	Blocker Mix, ILM	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.
	Amplification Master 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
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b>				
Ammonium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	1650 mg/kg	-
<b>SureSelect RNase Block</b>				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Amplification Master Mix</b>				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	-
	LD50 Oral	Rat	50 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b>					
Ammonium chloride	Eyes - Severe irritant	Rabbit	-	100 mg	-
<b>SureSelect RNase Block</b>					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Amplification Master Mix</b>					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-

#### Sensitisation

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

## Section 11. Toxicological information

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>Amplification Master Mix</b>			
Trometamol	Category 3	-	Respiratory tract irritation
tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : SureSelect Max Fast Hyb Buffer, 16 Hybs  
SureSelect RNase Block  
  
Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

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

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

Not available.

Not available.

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

### Potential acute health effects

**Eye contact** : SureSelect Max Fast Hyb Buffer, 16 Hybs  
SureSelect RNase Block  
Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

No known significant effects or critical hazards.

Causes eye irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Causes serious eye irritation.

**Inhalation** : SureSelect Max Fast Hyb Buffer, 16 Hybs  
SureSelect RNase Block  
Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

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.

May cause damage to organs following a single exposure if inhaled.

**Skin contact** : SureSelect Max Fast Hyb Buffer, 16 Hybs  
SureSelect RNase Block  
Blocker Mix, ILM  
SureSelect Post- Capture Primer Mix  
Amplification Master Mix

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.

May cause damage to organs following a single exposure in contact with skin. Causes skin irritation.

## Section 11. Toxicological information

<b>Ingestion</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	Harmful if swallowed. May cause damage to organs following a single exposure if swallowed.

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

<b>Eye contact</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	No specific data.
<b>Skin contact</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master 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

## Section 11. Toxicological information

<b>General</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	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)
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b> SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	61807.6 1650	N/A N/A	N/A N/A	N/A N/A	N/A N/A
<b>SureSelect RNase Block</b> Glycerol	12600	N/A	N/A	N/A	N/A
<b>Amplification Master Mix</b> Amplification Master Mix Glycerol tetramethylammonium chloride	1279.5 12600 50	7677.0 N/A 300	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

<b>Other information</b>	: SureSelect RNase Block	Adverse symptoms may include the following: May cause skin sensitisation.
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## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b> Ammonium chloride	Acute EC50 0.07 mg/l Marine water Acute LC50 20 µg/l Fresh water Acute LC50 390 µg/l Fresh water Acute LC50 80 µg/l Fresh water Chronic EC10 0.03 mg/l Fresh water Chronic NOEC 0.6 mg/l Marine water Chronic NOEC 330 µg/l Fresh water Chronic NOEC 0.006 mg/l Fresh water	Algae - <i>Hormosira banksii</i> - Gamete Crustaceans - <i>Macrobrachium rosenbergii</i> - Post-larvae Daphnia - <i>Daphnia magna</i> - Young Fish - <i>Oncorhynchus mykiss</i> Daphnia - <i>Daphnia obtusa</i> Algae - <i>Entomoneis punctulata</i> - Exponential growth phase Crustaceans - <i>Crangonyx sp.</i> - Juvenile (Fledgling, Hatchling, Weanling) Fish - <i>Ictalurus punctatus</i> - Fry	72 hours 48 hours 48 hours 96 hours 21 days 72 hours 21 days 30 days
<b>SureSelect RNase Block</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>Amplification Master Mix</b> Glycerol Trometamol tetramethylammonium chloride	Acute LC50 54000 mg/l Fresh water Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water Acute LC50 462 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i> Daphnia Daphnia Fish - <i>Pimephales promelas</i>	96 hours 48 hours 48 hours 96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>SureSelect RNase Block</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>Amplification Master Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-

  

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b> Ammonium chloride	-	-	Readily
<b>Amplification Master Mix</b> Trometamol tetramethylammonium chloride	- - -	- - -	Readily Readily

## Section 12. Ecological information

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b> Ammonium chloride	-3.2	-	Low
<b>SureSelect RNase Block</b> Glycerol	-1.76	-	Low
<b>Amplification Master Mix</b> Glycerol	-1.76	-	Low
Trometamol	-2.31	-	Low
tetramethylammonium chloride	<-1.6	-	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. 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 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 IMO instruments** : Not available.

## Section 15. Regulatory information

### Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

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

No listed substance

### International regulations

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

Not listed.

#### Montreal Protocol

## Section 15. Regulatory information

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.

**New Zealand** : Not determined.

**United States** : Not determined.

## Section 16. Any other relevant information

### [History](#)

**Date of issue/Date of revision** : 12/01/2024

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

**Version** : 1

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

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

Classification	Justification
<b>SureSelect Max Fast Hyb Buffer, 16 Hybs</b> SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	Calculation method Calculation method
<b>SureSelect RNase Block</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
<b>Amplification Master Mix</b> ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method Calculation method Calculation method Calculation method

Indicates information that has changed from previously issued version.

### [Notice to reader](#)

## Section 16. Any other relevant information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.