

# SAFETY DATA SHEET



SureSelect Reagent Kit-PTN

## Section 1. Identification

### 1.1 Product identifier

<b>Product name</b>	: SureSelect Reagent Kit-PTN	
<b>Part no. (chemical kit)</b>	: G9605A, G9605B	
<b>Part no.</b>	: SureSelect Hyb 1	5190-4396 / 5190-4404
	SureSelect Hyb 2	5190-4397
	SureSelect Hyb 4	5190-4406
	SureSelect Binding Buffer	5190-4399 / 5190-4407
	SureSelect Wash Buffer 1	5190-4400 / 5190-4408
	SureSelect Wash Buffer 2	5190-4401 / 5190-4409
	SureSelect RNase Block	5190-4383 / 5190-4386
	SureSelect Hyb 3	5190-4382 / 5190-4385
	SureSelect Block 2	5190-4381 / 5190-4384
	SureSelect PTN Block 1	5190-6508 / 5190-6511
	SureSelect PTN Block 3	5190-6509 / 5190-6512
	SureSelect PTN PCR Primer Mix	5190-6510 / 5190-6513
<b>Validation date</b>	: 3/21/2024	

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

<b>Identified uses</b>	: Analytical reagent.	
	SureSelect Hyb 1	0.4 ml - 2.4 ml
	SureSelect Hyb 2	1.25 ml
	SureSelect Hyb 4	1.25 ml
	SureSelect Binding Buffer	13.2 ml - 80 ml
	SureSelect Wash Buffer 1	8 ml - 48 ml
	SureSelect Wash Buffer 2	24 ml - 144 ml
	SureSelect RNase Block	0.016 ml - 0.1 ml
	SureSelect Hyb 3	0.16 ml - 0.96 ml
	SureSelect Block 2	0.04 ml - 0.24 ml
	SureSelect PTN Block 1	0.04 ml - 0.24 ml
	SureSelect PTN Block 3	0.01 ml - 0.058 ml
	SureSelect PTN PCR Primer Mix	0.075 ml - 0.435ml

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer** : Agilent Technologies, Inc.  
 5301 Stevens Creek Blvd  
 Santa Clara, CA 95051, USA  
 800-227-9770

### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

<b>OSHA/HCS status</b>	: SureSelect Hyb 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureSelect Hyb 2	This material is considered hazardous by the OSHA

## Section 2. Hazards identification

SureSelect Hyb 4	Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect Binding Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect Wash Buffer 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect Wash Buffer 2	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect RNase Block	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
SureSelect Hyb 3	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect Block 2	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect PTN Block 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect PTN Block 3	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect PTN PCR Primer Mix	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### [Classification of the substance or mixture](#)

## Section 2. Hazards identification

### SureSelect Hyb 2

H319 EYE IRRITATION - Category 2A  
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### SureSelect RNase Block

H320 EYE IRRITATION - Category 2B

### SureSelect Hyb 3

Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 3%

## 2.2 GHS label elements

### Hazard pictograms

: SureSelect Hyb 2



### Signal word

: SureSelect Hyb 1 No signal word.  
 SureSelect Hyb 2 Warning  
 SureSelect Hyb 4 No signal word.  
 SureSelect Binding Buffer No signal word.  
 SureSelect Wash Buffer 1 No signal word.  
 SureSelect Wash Buffer 2 No signal word.  
 SureSelect RNase Block Warning  
 SureSelect Hyb 3 No signal word.  
 SureSelect Block 2 No signal word.  
 SureSelect PTN Block 1 No signal word.  
 SureSelect PTN Block 3 No signal word.  
 SureSelect PTN PCR Primer Mix No signal word.

### Hazard statements

: SureSelect Hyb 1 No known significant effects or critical hazards.  
 SureSelect Hyb 2 H319 - Causes serious eye irritation.  
 H373 - May cause damage to organs through prolonged or repeated exposure. (respiratory tract)  
 SureSelect Hyb 4 No known significant effects or critical hazards.  
 SureSelect Binding Buffer No known significant effects or critical hazards.  
 SureSelect Wash Buffer 1 No known significant effects or critical hazards.  
 SureSelect Wash Buffer 2 No known significant effects or critical hazards.  
 SureSelect RNase Block H320 - Causes eye irritation.  
 SureSelect Hyb 3 No known significant effects or critical hazards.  
 SureSelect Block 2 No known significant effects or critical hazards.  
 SureSelect PTN Block 1 No known significant effects or critical hazards.  
 SureSelect PTN Block 3 No known significant effects or critical hazards.  
 SureSelect PTN PCR Primer Mix No known significant effects or critical hazards.

## Precautionary statements

### Prevention

: SureSelect Hyb 1 Not applicable.  
 SureSelect Hyb 2 P280 - Wear eye or face protection.  
 P260 - Do not breathe vapor.  
 SureSelect Hyb 4 Not applicable.  
 SureSelect Binding Buffer Not applicable.  
 SureSelect Wash Buffer 1 Not applicable.  
 SureSelect Wash Buffer 2 Not applicable.  
 SureSelect RNase Block Not applicable.  
 SureSelect Hyb 3 Not applicable.  
 SureSelect Block 2 Not applicable.  
 SureSelect PTN Block 1 Not applicable.  
 SureSelect PTN Block 3 Not applicable.  
 SureSelect PTN PCR Primer Mix Not applicable.

## Section 2. Hazards identification

<b>Response</b>	<ul style="list-style-type: none"> <li>: SureSelect Hyb 1</li> <li>SureSelect Hyb 2</li>   <li>SureSelect Hyb 4</li> <li>SureSelect Binding Buffer</li> <li>SureSelect Wash Buffer 1</li> <li>SureSelect Wash Buffer 2</li> <li>SureSelect RNase Block</li> </ul>	<p>Not applicable.</p> <p>P314 - Get medical advice or attention if you feel unwell.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical advice or attention.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical advice or attention.</p>
<b>Storage</b>	<ul style="list-style-type: none"> <li>SureSelect Hyb 3</li> <li>SureSelect Block 2</li> <li>SureSelect PTN Block 1</li> <li>SureSelect PTN Block 3</li> <li>SureSelect PTN PCR Primer Mix</li>   <li>: SureSelect Hyb 1</li> <li>SureSelect Hyb 2</li> <li>SureSelect Hyb 4</li> <li>SureSelect Binding Buffer</li> <li>SureSelect Wash Buffer 1</li> <li>SureSelect Wash Buffer 2</li> <li>SureSelect RNase Block</li> <li>SureSelect Hyb 3</li> <li>SureSelect Block 2</li> <li>SureSelect PTN Block 1</li> <li>SureSelect PTN Block 3</li> <li>SureSelect PTN PCR Primer Mix</li> </ul>	<p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>: SureSelect Hyb 1</li> <li>SureSelect Hyb 2</li>   <li>SureSelect Hyb 4</li> <li>SureSelect Binding Buffer</li> <li>SureSelect Wash Buffer 1</li> <li>SureSelect Wash Buffer 2</li> <li>SureSelect RNase Block</li> <li>SureSelect Hyb 3</li> <li>SureSelect Block 2</li> <li>SureSelect PTN Block 1</li> <li>SureSelect PTN Block 3</li> <li>SureSelect PTN PCR Primer Mix</li> </ul>	<p>Not applicable.</p> <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p>
<b>Supplemental label elements</b>	<ul style="list-style-type: none"> <li>: SureSelect Hyb 1</li> <li>SureSelect Hyb 2</li> <li>SureSelect Hyb 4</li> <li>SureSelect Binding Buffer</li> <li>SureSelect Wash Buffer 1</li> <li>SureSelect Wash Buffer 2</li> <li>SureSelect RNase Block</li> <li>SureSelect Hyb 3</li> <li>SureSelect Block 2</li> <li>SureSelect PTN Block 1</li> </ul>	<p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p>

## Section 2. Hazards identification

SureSelect PTN Block 3 None known.  
 SureSelect PTN PCR Primer Mix None known.

### 2.3 Other hazards

#### Hazards not otherwise classified

: SureSelect Hyb 1 None known.  
 SureSelect Hyb 2 None known.  
 SureSelect Hyb 4 None known.  
 SureSelect Binding Buffer None known.  
 SureSelect Wash Buffer 1 None known.  
 SureSelect Wash Buffer 2 None known.  
 SureSelect RNase Block None known.  
 SureSelect Hyb 3 None known.  
 SureSelect Block 2 None known.  
 SureSelect PTN Block 1 None known.  
 SureSelect PTN Block 3 None known.  
 SureSelect PTN PCR Primer Mix None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : SureSelect Hyb 1 Mixture  
 SureSelect Hyb 2 Mixture  
 SureSelect Hyb 4 Mixture  
 SureSelect Binding Buffer Mixture  
 SureSelect Wash Buffer 1 Mixture  
 SureSelect Wash Buffer 2 Mixture  
 SureSelect RNase Block Mixture  
 SureSelect Hyb 3 Mixture  
 SureSelect Block 2 Mixture  
 SureSelect PTN Block 1 Mixture  
 SureSelect PTN Block 3 Mixture  
 SureSelect PTN PCR Primer Mix Mixture

Ingredient name	%	CAS number
<b>SureSelect Hyb 1</b>		
Sodium dihydrogenorthophosphate	≤3	7558-80-7
<b>SureSelect Hyb 2</b>		
Edetic acid	≥10 - ≤25	60-00-4
<b>SureSelect Hyb 4</b>		
Sodium dodecyl sulphate	<1	151-21-3
<b>SureSelect Wash Buffer 1</b>		
Sodium dodecyl sulphate	≤0.3	151-21-3
<b>SureSelect Wash Buffer 2</b>		
Sodium dodecyl sulphate	≤0.3	151-21-3
<b>SureSelect RNase Block</b>		
Glycerol	≥50 - ≤75	56-81-5

## Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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.**

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

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

<b>Eye contact</b>	: SureSelect Hyb 1	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 Hyb 2	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.
	SureSelect Hyb 4	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 Binding 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 Wash Buffer 1	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 Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect RNase Block	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	SureSelect Hyb 3	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 Block 2	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 PTN Block 1	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 PTN Block 3	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 PTN PCR Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

## Section 4. First aid measures

<b>Inhalation</b>	: SureSelect Hyb 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Hyb 2	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 unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect Hyb 4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	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.
	SureSelect Hyb 3	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 Block 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect PTN Block 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect PTN Block 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect PTN PCR Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical



## Section 4. First aid measures

<b>Skin contact</b>	: SureSelect Hyb 1	attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Hyb 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SureSelect Hyb 4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 2	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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SureSelect Hyb 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Block 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect PTN Block 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect PTN Block 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect PTN PCR Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: SureSelect Hyb 1	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 Hyb 2	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 following exposure or if feeling unwell. 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



## Section 4. First aid measures

SureSelect Hyb 4	tight clothing such as a collar, tie, belt or waistband. 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 Binding Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	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 Wash Buffer 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect RNase Block	Wash out mouth with water. 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.
SureSelect Hyb 3	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 Block 2	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 PTN Block 1	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 PTN Block 3	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

## Section 4. First aid measures

SureSelect PTN PCR Primer Mix

induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

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

#### Potential acute health effects

##### Eye contact

SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	Causes serious eye irritation.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	Causes eye irritation.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect PTN Block 1	No known significant effects or critical hazards.
SureSelect PTN Block 3	No known significant effects or critical hazards.
SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.

##### Inhalation

SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	No known significant effects or critical hazards.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect PTN Block 1	No known significant effects or critical hazards.
SureSelect PTN Block 3	No known significant effects or critical hazards.
SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.

##### Skin contact

SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	No known significant effects or critical hazards.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect PTN Block 1	No known significant effects or critical hazards.
SureSelect PTN Block 3	No known significant effects or critical hazards.
SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.

##### Ingestion

SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	No known significant effects or critical hazards.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect PTN Block 1	No known significant effects or critical hazards.
SureSelect PTN Block 3	No known significant effects or critical hazards.

## Section 4. First aid measures

SureSelect PTN PCR Primer Mix No known significant effects or critical hazards.

### Over-exposure signs/symptoms

#### Eye contact

: SureSelect Hyb 1  
SureSelect Hyb 2

No specific data.  
Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer 2  
SureSelect RNase Block

No specific data.  
No specific data.  
No specific data.  
No specific data.  
Adverse symptoms may include the following:  
irritation  
watering  
redness

SureSelect Hyb 3  
SureSelect Block 2  
SureSelect PTN Block 1  
SureSelect PTN Block 3  
SureSelect PTN PCR Primer Mix

No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.

#### Inhalation

: SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer 2  
SureSelect RNase Block  
SureSelect Hyb 3  
SureSelect Block 2  
SureSelect PTN Block 1  
SureSelect PTN Block 3  
SureSelect PTN PCR Primer Mix

No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.

#### Skin contact

: SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer 2  
SureSelect RNase Block  
SureSelect Hyb 3  
SureSelect Block 2  
SureSelect PTN Block 1  
SureSelect PTN Block 3  
SureSelect PTN PCR Primer Mix

No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.


#### Ingestion

: SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer 2  
SureSelect RNase Block  
SureSelect Hyb 3  
SureSelect Block 2  
SureSelect PTN Block 1  
SureSelect PTN Block 3  
SureSelect PTN PCR Primer Mix

No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.  
No specific data.

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

## Section 4. First aid measures

<b>Notes to physician</b>	: SureSelect Hyb 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Hyb 2	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 Hyb 4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Hyb 3	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 Block 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect PTN Block 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect PTN Block 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect PTN PCR Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: SureSelect Hyb 1	No specific treatment.
	SureSelect Hyb 2	No specific treatment.
	SureSelect Hyb 4	No specific treatment.
	SureSelect Binding Buffer	No specific treatment.
	SureSelect Wash Buffer 1	No specific treatment.
	SureSelect Wash Buffer 2	No specific treatment.
	SureSelect RNase Block	No specific treatment.
	SureSelect Hyb 3	No specific treatment.
	SureSelect Block 2	No specific treatment.
	SureSelect PTN Block 1	No specific treatment.
	SureSelect PTN Block 3	No specific treatment.
	SureSelect PTN PCR Primer Mix	No specific treatment.
<b>Protection of first-aiders</b>	:  SureSelect Hyb 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Hyb 2	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SureSelect Hyb 4	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training.

## Section 4. First aid measures

SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 2	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.
SureSelect Hyb 3	No action shall be taken involving any personal risk or without suitable training.
SureSelect Block 2	No action shall be taken involving any personal risk or without suitable training.
SureSelect PTN Block 1	No action shall be taken involving any personal risk or without suitable training.
SureSelect PTN Block 3	No action shall be taken involving any personal risk or without suitable training.
SureSelect PTN PCR Primer Mix	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: SureSelect Hyb 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Hyb 2	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Hyb 4	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Hyb 3	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Block 2	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect PTN Block 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect PTN Block 3	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect PTN PCR Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
	<b>Unsuitable extinguishing media</b>	: SureSelect Hyb 1
SureSelect Hyb 2		None known.
SureSelect Hyb 4		None known.
SureSelect Binding Buffer		None known.
SureSelect Wash Buffer 1		None known.
SureSelect Wash Buffer 2		None known.
SureSelect RNase Block		None known.
SureSelect Hyb 3		None known.
SureSelect Block 2		None known.
SureSelect PTN Block 1		None known.
SureSelect PTN Block 3	None known.	
SureSelect PTN PCR Primer Mix	None known.	

## Section 5. Fire-fighting measures

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	: SureSelect Hyb 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Hyb 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Hyb 4	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Hyb 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Block 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect PTN Block 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect PTN Block 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect PTN PCR Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	<b>Hazardous thermal decomposition products</b>	: SureSelect Hyb 1
SureSelect Hyb 2		Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
SureSelect Hyb 4		No specific data.
SureSelect Binding Buffer		Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
SureSelect Wash Buffer 1		No specific data.
SureSelect Wash Buffer 2		No specific data.
SureSelect RNase Block		Decomposition products may include the following materials: carbon dioxide carbon monoxide
SureSelect Hyb 3		Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds carbonyl halides
SureSelect Block 2		No specific data.
SureSelect PTN Block 1		No specific data.
SureSelect PTN Block 3		No specific data.
SureSelect PTN PCR Primer Mix		No specific data.



## Section 5. Fire-fighting measures

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	: SureSelect Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding 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 Wash Buffer 1	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 Wash Buffer 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Hyb 3	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 Block 2	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 PTN Block 1	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 PTN Block 3	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 PTN PCR Primer Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: SureSelect Hyb 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Hyb 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Hyb 4	Fire-fighters should wear appropriate protective



## Section 5. Fire-fighting measures

	equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Binding 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 Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Wash Buffer 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect RNase Block	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Hyb 3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Block 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect PTN Block 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect PTN Block 3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect PTN PCR Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

: SureSelect Hyb 1

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

SureSelect Hyb 2

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SureSelect Hyb 4

No action shall be taken involving any personal risk or without suitable training. Evacuate

## Section 6. Accidental release measures

SureSelect Binding Buffer	<p>surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
SureSelect Wash Buffer 1	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
SureSelect Wash Buffer 2	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
SureSelect RNase Block	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
SureSelect Hyb 3	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
SureSelect Block 2	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
SureSelect PTN Block 1	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
SureSelect PTN Block 3	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
SureSelect PTN PCR Primer Mix	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on</p>

## Section 6. Accidental release measures

		appropriate personal protective equipment.
<b>For emergency responders</b>	: SureSelect Hyb 1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Hyb 2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Hyb 4	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Binding Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Wash Buffer 1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Wash Buffer 2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect RNase Block	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Hyb 3	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Block 2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect PTN Block 1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect PTN Block 3	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect PTN PCR Primer Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>6.2 Environmental precautions</b>	: SureSelect Hyb 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureSelect Hyb 2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

## Section 6. Accidental release measures

SureSelect Hyb 4	waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Binding Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer 2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect RNase Block	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Hyb 3	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Block 2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect PTN Block 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect PTN Block 3	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect PTN PCR Primer Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

<b>Methods for cleaning up</b>	: SureSelect Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding 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 Wash Buffer 1	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 Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureSelect RNase Block	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureSelect Hyb 3	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 Block 2	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 PTN Block 1	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 6. Accidental release measures

SureSelect PTN Block 3	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 PTN PCR Primer Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	:	SureSelect Hyb 1	Put on appropriate personal protective equipment (see Section 8).
		SureSelect Hyb 2	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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 Hyb 4	Put on appropriate personal protective equipment (see Section 8).
		SureSelect Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
		SureSelect Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
		SureSelect Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
		SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
		SureSelect Hyb 3	Put on appropriate personal protective equipment (see Section 8).
		SureSelect Block 2	Put on appropriate personal protective equipment (see Section 8).
		SureSelect PTN Block 1	Put on appropriate personal protective equipment (see Section 8).
		SureSelect PTN Block 3	Put on appropriate personal protective equipment (see Section 8).
		SureSelect PTN PCR Primer Mix	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	:	SureSelect Hyb 1	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 Hyb 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and



## Section 7. Handling and storage

SureSelect Hyb 4	processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Binding 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 Wash Buffer 1	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 Wash Buffer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect RNase Block	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Hyb 3	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 Block 2	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 PTN Block 1	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.



## Section 7. Handling and storage

	SureSelect PTN Block 3	for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect PTN PCR Primer Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face 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>7.2 Conditions for safe storage, including any incompatibilities</b></p>	: SureSelect Hyb 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	SureSelect Hyb 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	SureSelect Hyb 4	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	SureSelect Binding 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 7. Handling and storage

SureSelect Wash Buffer 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Wash Buffer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Hyb 3	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Block 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect PTN Block 1	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

## Section 7. Handling and storage

SureSelect PTN Block 3

until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

SureSelect PTN PCR Primer Mix

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

### 7.3 Specific end use(s)

#### Recommendations

SureSelect Hyb 1	Industrial applications, Professional applications.
SureSelect Hyb 2	Industrial applications, Professional applications.
SureSelect Hyb 4	Industrial applications, Professional applications.
SureSelect Binding Buffer	Industrial applications, Professional applications.
SureSelect Wash Buffer 1	Industrial applications, Professional applications.
SureSelect Wash Buffer 2	Industrial applications, Professional applications.
SureSelect RNase Block	Industrial applications, Professional applications.
SureSelect Hyb 3	Industrial applications, Professional applications.
SureSelect Block 2	Industrial applications, Professional applications.
SureSelect PTN Block 1	Industrial applications, Professional applications.
SureSelect PTN Block 3	Industrial applications, Professional applications.
SureSelect PTN PCR Primer Mix	Industrial applications, Professional applications.

#### Industrial sector specific solutions

SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect RNase Block	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect PTN Block 1	Not available.
SureSelect PTN Block 3	Not available.
SureSelect PTN PCR Primer Mix	Not available.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>SureSelect Hyb 1</b> Sodium dihydrogenorthophosphate	None.
<b>SureSelect Hyb 2</b> Edetic acid	None.
<b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	None.
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	None.
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	None.
<b>SureSelect RNase Block</b> Glycerol	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>CAL OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: respirable fraction</p> <p>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: total dust</p>

#### Biological exposure indices

No exposure indices known.

### 8.2 Exposure controls

#### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor 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.

#### 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

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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

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

### Appearance

<b>Physical state</b>	SureSelect Hyb 1	Liquid.
	SureSelect Hyb 2	Liquid.
	SureSelect Hyb 4	Liquid.
	SureSelect Binding Buffer	Liquid.
	SureSelect Wash Buffer 1	Liquid.
	SureSelect Wash Buffer 2	Liquid.
	SureSelect RNase Block	Liquid.
	SureSelect Hyb 3	Liquid.
	SureSelect Block 2	Liquid.
	SureSelect PTN Block 1	Liquid.
SureSelect PTN Block 3	Liquid.	
SureSelect PTN PCR Primer Mix	Liquid.	
<b>Color</b>	SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Colorless.
	SureSelect PTN Block 1	Not available.
SureSelect PTN Block 3	Not available.	
SureSelect PTN PCR Primer Mix	Not available.	
<b>Odor</b>	SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Odorless.
	SureSelect PTN Block 1	Not available.
SureSelect PTN Block 3	Not available.	
SureSelect PTN PCR Primer Mix	Not available.	

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

**Odor threshold** :

- SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 Not available.
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 Not available.
- SureSelect Wash Buffer 2 Not available.
- SureSelect RNase Block Not available.
- SureSelect Hyb 3 Not available.
- SureSelect Block 2 Not available.
- SureSelect PTN Block 1 Not available.
- SureSelect PTN Block 3 Not available.
- SureSelect PTN PCR Primer Mix Not available.

**pH** :

- SureSelect Hyb 1 7.4
- SureSelect Hyb 2 8
- SureSelect Hyb 4 Not available.
- SureSelect Binding Buffer 7.5
- SureSelect Wash Buffer 1 7
- SureSelect Wash Buffer 2 7
- SureSelect RNase Block 7.6
- SureSelect Hyb 3 7
- SureSelect Block 2 Not available.
- SureSelect PTN Block 1 Not available.
- SureSelect PTN Block 3 Not available.
- SureSelect PTN PCR Primer Mix Not available.

**Melting point/freezing point** :

- SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 0°C (32°F)
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 0°C (32°F)
- SureSelect Wash Buffer 2 0°C (32°F)
- SureSelect RNase Block Not available.
- SureSelect Hyb 3 0°C (32°F)
- SureSelect Block 2 0°C (32°F)
- SureSelect PTN Block 1 0°C (32°F)
- SureSelect PTN Block 3 0°C (32°F)
- SureSelect PTN PCR Primer Mix 0°C (32°F)

**Boiling point, initial boiling point, and boiling range** :

- SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 100°C (212°F)
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 100°C (212°F)
- SureSelect Wash Buffer 2 100°C (212°F)
- SureSelect RNase Block Not available.
- SureSelect Hyb 3 100°C (212°F)
- SureSelect Block 2 100°C (212°F)
- SureSelect PTN Block 1 100°C (212°F)
- SureSelect PTN Block 3 100°C (212°F)
- SureSelect PTN PCR Primer Mix 100°C (212°F)

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
SureSelect RNase Block						
Glycerol	-	-	-	177	350.6	-

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

- Evaporation rate** :
- SureSelect Hyb 1 Not available.
  - SureSelect Hyb 2 Not available.
  - SureSelect Hyb 4 Not available.
  - SureSelect Binding Buffer Not available.
  - SureSelect Wash Buffer 1 Not available.
  - SureSelect Wash Buffer 2 Not available.
  - SureSelect RNase Block Not available.
  - SureSelect Hyb 3 Not available.
  - SureSelect Block 2 Not available.
  - SureSelect PTN Block 1 Not available.
  - SureSelect PTN Block 3 Not available.
  - SureSelect PTN PCR Primer Mix Not available.
- Flammability** :
- SureSelect Hyb 1 Not applicable.
  - SureSelect Hyb 2 Not applicable.
  - SureSelect Hyb 4 Not applicable.
  - SureSelect Binding Buffer Not applicable.
  - SureSelect Wash Buffer 1 Not applicable.
  - SureSelect Wash Buffer 2 Not applicable.
  - SureSelect RNase Block Not applicable.
  - SureSelect Hyb 3 Not applicable.
  - SureSelect Block 2 Not applicable.
  - SureSelect PTN Block 1 Not applicable.
  - SureSelect PTN Block 3 Not applicable.
  - SureSelect PTN PCR Primer Mix Not applicable.
- Lower and upper explosion limit/flammability limit** :
- SureSelect Hyb 1 Not available.
  - SureSelect Hyb 2 Not available.
  - SureSelect Hyb 4 Not available.
  - SureSelect Binding Buffer Not available.
  - SureSelect Wash Buffer 1 Not available.
  - SureSelect Wash Buffer 2 Not available.
  - SureSelect RNase Block Not available.
  - SureSelect Hyb 3 Not available.
  - SureSelect Block 2 Not available.
  - SureSelect PTN Block 1 Not available.
  - SureSelect PTN Block 3 Not available.
  - SureSelect PTN PCR Primer Mix Not available.

**Vapor pressure** :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>SureSelect Hyb 1</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect Hyb 2</b>						
water	17.5	2.3	-	92.258	12.3	-
Edetic acid	0	0	-	-	-	-
<b>SureSelect Hyb 4</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect Binding Buffer</b>						



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

water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect Wash Buffer 1</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect Wash Buffer 2</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>SureSelect Hyb 3</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect Block 2</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect PTN Block 1</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect PTN Block 3</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect PTN PCR Primer Mix</b>						
water	17.5	2.3	-	92.258	12.3	-

**Relative vapor density**

- : SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 Not available.
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 Not available.
- SureSelect Wash Buffer 2 Not available.
- SureSelect RNase Block Not available.
- SureSelect Hyb 3 Not available.
- SureSelect Block 2 Not available.
- SureSelect PTN Block 1 Not available.
- SureSelect PTN Block 3 Not available.
- SureSelect PTN PCR Primer Mix Not available.

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

<b>Relative density</b>	SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect PTN Block 1	Not available.
	SureSelect PTN Block 3	Not available.
	SureSelect PTN PCR Primer Mix	Not available.

<b>Solubility(ies)</b>	<b>Media</b>	<b>Result</b>
	SureSelect Hyb 1 water	Soluble
	SureSelect Hyb 2 water	Soluble
	SureSelect Hyb 4 water	Soluble
	SureSelect Binding Buffer water	Soluble
	SureSelect Wash Buffer 1 water	Soluble
	SureSelect Wash Buffer 2 water	Soluble
	SureSelect RNase Block water	Soluble
	SureSelect Hyb 3 water	Soluble
	SureSelect Block 2 water	Soluble
	SureSelect PTN Block 1 water	Soluble
	SureSelect PTN Block 3 water	Soluble
	SureSelect PTN PCR Primer Mix water	Soluble

<b>Partition coefficient: n-octanol/water</b>	SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	Not applicable.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect PTN Block 1	Not applicable.
	SureSelect PTN Block 3	Not applicable.
	SureSelect PTN PCR Primer Mix	Not applicable.

<b>Auto-ignition temperature</b>	<b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
	SureSelect Hyb 2 Edetic acid	>400	>752	VDI 2263
	SureSelect RNase Block Glycerol	370	698	-

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

<b>Decomposition temperature</b>	SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect PTN Block 1	Not available.
	SureSelect PTN Block 3	Not available.
	SureSelect PTN PCR Primer Mix	Not available.

<b>Viscosity</b>	SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect PTN Block 1	Not available.
	SureSelect PTN Block 3	Not available.
	SureSelect PTN PCR Primer Mix	Not available.

### Particle characteristics

<b>Median particle size</b>	SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	Not applicable.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect PTN Block 1	Not applicable.
	SureSelect PTN Block 3	Not applicable.
	SureSelect PTN PCR Primer Mix	Not applicable.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	SureSelect Hyb 1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Hyb 2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Hyb 4	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Binding Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect RNase Block	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Hyb 3	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Block 2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect PTN Block 1	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

SureSelect PTN Block 3	No specific test data related to reactivity available for this product or its ingredients.
SureSelect PTN PCR Primer Mix	No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

: SureSelect Hyb 1	The product is stable.
SureSelect Hyb 2	The product is stable.
SureSelect Hyb 4	The product is stable.
SureSelect Binding Buffer	The product is stable.
SureSelect Wash Buffer 1	The product is stable.
SureSelect Wash Buffer 2	The product is stable.
SureSelect RNase Block	The product is stable.
SureSelect Hyb 3	The product is stable.
SureSelect Block 2	The product is stable.
SureSelect PTN Block 1	The product is stable.
SureSelect PTN Block 3	The product is stable.
SureSelect PTN PCR Primer Mix	The product is stable.

### 10.3 Possibility of hazardous reactions

: SureSelect Hyb 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 4	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 3	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Block 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect PTN Block 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect PTN Block 3	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect PTN PCR Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

: SureSelect Hyb 1	No specific data.
SureSelect Hyb 2	No specific data.
SureSelect Hyb 4	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect PTN Block 1	No specific data.
SureSelect PTN Block 3	No specific data.
SureSelect PTN PCR Primer Mix	No specific data.

## Section 10. Stability and reactivity

<b>10.5 Incompatible materials</b>	:	SureSelect Hyb 1	May react or be incompatible with oxidizing materials.
		SureSelect Hyb 2	May react or be incompatible with oxidizing materials.
		SureSelect Hyb 4	May react or be incompatible with oxidizing materials.
		SureSelect Binding Buffer	May react or be incompatible with oxidizing materials.
		SureSelect Wash Buffer 1	May react or be incompatible with oxidizing materials.
		SureSelect Wash Buffer 2	May react or be incompatible with oxidizing materials.
		SureSelect RNase Block	May react or be incompatible with oxidizing materials.
		SureSelect Hyb 3	May react or be incompatible with oxidizing materials.
		SureSelect Block 2	May react or be incompatible with oxidizing materials.
		SureSelect PTN Block 1	May react or be incompatible with oxidizing materials.
		SureSelect PTN Block 3	May react or be incompatible with oxidizing materials.
		SureSelect PTN PCR Primer Mix	May react or be incompatible with oxidizing materials.
<b>10.6 Hazardous decomposition products</b>	:	SureSelect Hyb 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect Hyb 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect Hyb 4	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect Hyb 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect Block 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect PTN Block 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect PTN Block 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect PTN PCR Primer Mix	Under normal conditions of storage and use,

## Section 10. Stability and reactivity

hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>SureSelect Hyb 1</b> Sodium dihydrogenorthophosphate	LD50 Dermal	Rabbit	>7940 mg/kg	-
	LD50 Oral	Rat	8290 mg/kg	-
<b>SureSelect Hyb 2</b> Edetic acid	LD50 Oral	Rat	4500 mg/kg	-
<b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
<b>SureSelect RNase Block</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SureSelect Hyb 1</b> Sodium dihydrogenorthophosphate	Eyes - Mild irritant	Rabbit	-	150 mg	-
<b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-

## Section 11. Toxicological information

<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	Skin - Moderate irritant	Rabbit	-	mg 24 hours 25 mg	-
	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-
<b>SureSelect RNase Block</b> Glycerol	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

### Sensitization

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.


### Reproductive toxicity

**Conclusion/Summary** : Not available.


### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
 <b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
 <b>SureSelect Hyb 2</b> Edetic acid	Category 2	inhalation	respiratory tract

### Aspiration hazard



## Section 11. Toxicological information

Not available.

### Information on the likely routes of exposure

<ul style="list-style-type: none"> <li>☑ SureSelect Hyb 1</li> <li>SureSelect Hyb 2</li>   <li>SureSelect Hyb 4</li> <li>SureSelect Binding Buffer</li> <li>SureSelect Wash Buffer 1</li> <li>SureSelect Wash Buffer 2</li> <li>SureSelect RNase Block</li>   <li>SureSelect Hyb 3</li> <li>SureSelect Block 2</li> <li>SureSelect PTN Block 1</li> <li>SureSelect PTN Block 3</li> <li>SureSelect PTN PCR Primer Mix</li> </ul>	<p>Not available.</p> <p>Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.</p> <p>Not available.</p> <p>Not available.</p> <p>Not available.</p> <p>Not available.</p> <p>Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.</p> <p>Not available.</p> <p>Not available.</p> <p>Not available.</p> <p>Not available.</p>
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### Potential acute health effects

#### Eye contact

<ul style="list-style-type: none"> <li>☑ SureSelect Hyb 1</li> <li>SureSelect Hyb 2</li> <li>SureSelect Hyb 4</li> <li>SureSelect Binding Buffer</li> <li>SureSelect Wash Buffer 1</li> <li>SureSelect Wash Buffer 2</li> <li>SureSelect RNase Block</li> <li>SureSelect Hyb 3</li> <li>SureSelect Block 2</li> <li>SureSelect PTN Block 1</li> <li>SureSelect PTN Block 3</li> <li>SureSelect PTN PCR Primer Mix</li> </ul>	<p>No known significant effects or critical hazards. Causes serious eye irritation.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>Causes eye irritation.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>
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#### Inhalation

<ul style="list-style-type: none"> <li>☑ SureSelect Hyb 1</li> <li>SureSelect Hyb 2</li> <li>SureSelect Hyb 4</li> <li>SureSelect Binding Buffer</li> <li>SureSelect Wash Buffer 1</li> <li>SureSelect Wash Buffer 2</li> <li>SureSelect RNase Block</li> <li>SureSelect Hyb 3</li> <li>SureSelect Block 2</li> <li>SureSelect PTN Block 1</li> <li>SureSelect PTN Block 3</li> <li>SureSelect PTN PCR Primer Mix</li> </ul>	<p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>
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#### Skin contact

<ul style="list-style-type: none"> <li>☑ SureSelect Hyb 1</li> <li>SureSelect Hyb 2</li> <li>SureSelect Hyb 4</li> <li>SureSelect Binding Buffer</li> <li>SureSelect Wash Buffer 1</li> <li>SureSelect Wash Buffer 2</li> <li>SureSelect RNase Block</li> <li>SureSelect Hyb 3</li> <li>SureSelect Block 2</li> <li>SureSelect PTN Block 1</li> <li>SureSelect PTN Block 3</li> <li>SureSelect PTN PCR Primer Mix</li> </ul>	<p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>
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## Section 11. Toxicological information

<b>Ingestion</b>	: SureSelect Hyb 1	No known significant effects or critical hazards.
	SureSelect Hyb 2	No known significant effects or critical hazards.
	SureSelect Hyb 4	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect PTN Block 1	No known significant effects or critical hazards.
	SureSelect PTN Block 3	No known significant effects or critical hazards.
SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.	

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

<b>Eye contact</b>	: SureSelect Hyb 1	No specific data.	
	SureSelect Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness	
	SureSelect Hyb 4	No specific data.	
	SureSelect Binding Buffer	No specific data.	
	SureSelect Wash Buffer 1	No specific data.	
	SureSelect Wash Buffer 2	No specific data.	
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness	
	SureSelect Hyb 3	No specific data.	
	SureSelect Block 2	No specific data.	
	SureSelect PTN Block 1	No specific data.	
	SureSelect PTN Block 3	No specific data.	
	SureSelect PTN PCR Primer Mix	No specific data.	
	<b>Inhalation</b>	: SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	No specific data.
		SureSelect Hyb 4	No specific data.
SureSelect Binding Buffer		No specific data.	
SureSelect Wash Buffer 1		No specific data.	
SureSelect Wash Buffer 2		No specific data.	
SureSelect RNase Block		No specific data.	
SureSelect Hyb 3		No specific data.	
SureSelect Block 2		No specific data.	
SureSelect PTN Block 1		No specific data.	
SureSelect PTN Block 3		No specific data.	
SureSelect PTN PCR Primer Mix	No specific data.		
<b>Skin contact</b>	: SureSelect Hyb 1	No specific data.	
	SureSelect Hyb 2	No specific data.	
	SureSelect Hyb 4	No specific data.	
	SureSelect Binding Buffer	No specific data.	
	SureSelect Wash Buffer 1	No specific data.	
	SureSelect Wash Buffer 2	No specific data.	
	SureSelect RNase Block	No specific data.	
	SureSelect Hyb 3	No specific data.	
	SureSelect Block 2	No specific data.	
	SureSelect PTN Block 1	No specific data.	
	SureSelect PTN Block 3	No specific data.	
SureSelect PTN PCR Primer Mix	No specific data.		

## Section 11. Toxicological information

<b>Ingestion</b>	: SureSelect Hyb 1	No specific data.
	SureSelect Hyb 2	No specific data.
	SureSelect Hyb 4	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect PTN Block 1	No specific data.
	SureSelect PTN Block 3	No specific data.
SureSelect PTN PCR Primer Mix	No specific data.	

### Delayed and immediate effects and also 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 Hyb 1	No known significant effects or critical hazards.
	SureSelect Hyb 2	May cause damage to organs through prolonged or repeated exposure.
	SureSelect Hyb 4	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect PTN Block 1	No known significant effects or critical hazards.
	SureSelect PTN Block 3	No known significant effects or critical hazards.
SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.	
<b>Carcinogenicity</b>	: SureSelect Hyb 1	No known significant effects or critical hazards.
	SureSelect Hyb 2	No known significant effects or critical hazards.
	SureSelect Hyb 4	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect PTN Block 1	No known significant effects or critical hazards.
	SureSelect PTN Block 3	No known significant effects or critical hazards.
SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.	
<b>Mutagenicity</b>	: SureSelect Hyb 1	No known significant effects or critical hazards.
	SureSelect Hyb 2	No known significant effects or critical hazards.
	SureSelect Hyb 4	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.

## Section 11. Toxicological information

	SureSelect PTN Block 1	No known significant effects or critical hazards.
	SureSelect PTN Block 3	No known significant effects or critical hazards.
	SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: SureSelect Hyb 1	No known significant effects or critical hazards.
	SureSelect Hyb 2	No known significant effects or critical hazards.
	SureSelect Hyb 4	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect PTN Block 1	No known significant effects or critical hazards.
	SureSelect PTN Block 3	No known significant effects or critical hazards.
	SureSelect PTN PCR Primer 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 (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>SureSelect Hyb 1</b> SureSelect Hyb 1 Sodium dihydrogenorthophosphate	17142.9 8290	N/A N/A	N/A N/A	N/A N/A	N/A N/A
<b>SureSelect Hyb 2</b> SureSelect Hyb 2 Edetic acid	30821.9 4500	N/A N/A	N/A N/A	N/A N/A	10.3 1.5
<b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
<b>SureSelect Binding Buffer</b> SureSelect Binding Buffer	51369.9	N/A	N/A	N/A	N/A
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
<b>SureSelect RNase Block</b> Glycerol	12600	N/A	N/A	N/A	N/A

**Other information** : SureSelect RNase Block

Adverse symptoms may include the following: May cause skin sensitization.

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>SureSelect Hyb 1</b> Sodium dihydrogenorthophosphate	Acute LC50 720 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
<b>SureSelect Hyb 2</b> Edetic acid	Acute EC50 >60 mg/l Fresh water Acute EC50 113000 µg/l Fresh water Acute LC50 129000 µg/l Fresh water	Algae - <i>Raphidocelis subcapitata</i> Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Ictalurus punctatus</i> - Fingerling	72 hours 48 hours 96 hours
<b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water Acute LC50 900 µg/l Marine water Acute LC50 1400 µg/l Fresh water Acute LC50 590 µg/l Fresh water Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC 0.8 mg/l Fresh water	Algae - <i>Skeletonema costatum</i> Crustaceans - <i>Artemia salina</i> - Adult Daphnia - <i>Daphnia pulex</i> - Neonate Fish - <i>Cirrhinus mrigala</i> - Larvae Algae - <i>Ulva fasciata</i> - Zoea Crustaceans - <i>Pseudosida ramosa</i> - Neonate Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Gambusia holbrooki</i>	96 hours 48 hours 48 hours 96 hours 96 hours 21 days 21 days 28 days
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water Acute LC50 900 µg/l Marine water Acute LC50 1400 µg/l Fresh water Acute LC50 590 µg/l Fresh water Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC 0.8 mg/l Fresh water	Algae - <i>Skeletonema costatum</i> Crustaceans - <i>Artemia salina</i> - Adult Daphnia - <i>Daphnia pulex</i> - Neonate Fish - <i>Cirrhinus mrigala</i> - Larvae Algae - <i>Ulva fasciata</i> - Zoea Crustaceans - <i>Pseudosida ramosa</i> - Neonate Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Gambusia holbrooki</i>	96 hours 48 hours 48 hours 96 hours 96 hours 21 days 21 days 28 days
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water Acute LC50 900 µg/l Marine water Acute LC50 1400 µg/l Fresh water Acute LC50 590 µg/l Fresh water Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC 0.8 mg/l Fresh water	Algae - <i>Skeletonema costatum</i> Crustaceans - <i>Artemia salina</i> - Adult Daphnia - <i>Daphnia pulex</i> - Neonate Fish - <i>Cirrhinus mrigala</i> - Larvae Algae - <i>Ulva fasciata</i> - Zoea Crustaceans - <i>Pseudosida ramosa</i> - Neonate Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Gambusia holbrooki</i>	96 hours 48 hours 48 hours 96 hours 96 hours 21 days 21 days 28 days
<b>SureSelect RNase Block</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

## Section 12. Ecological information

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-
<b>SureSelect RNase Block</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>SureSelect Hyb 2</b> Edetic acid	-	-	Not readily
<b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	-	-	Readily
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	-	-	Readily
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>SureSelect Hyb 2</b> Edetic acid	-	1.8	Low
<b>SureSelect Hyb 4</b> Sodium dodecyl sulphate	-2.03	-	Low
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	-2.03	-	Low
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	-2.03	-	Low

## Section 12. Ecological information

SureSelect RNase Block Glycerol	-1.76	-	Low
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### 12.4 Mobility in soil

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

**DOT / TDG / Mexico / IMDG / IATA** : Not regulated.

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

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 Clean Water Act (CWA) 311: Edetic acid



## Section 15. Regulatory information

**Clean Air Act Section 112** : Not listed

**(b) Hazardous Air Pollutants (HAPs)**

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

#### **Classification**

<p>SureSelect Hyb 1 SureSelect Hyb 2</p> <p>SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect RNase Block SureSelect Hyb 3 SureSelect Block 2 SureSelect PTN Block 1 SureSelect PTN Block 3 SureSelect PTN PCR Primer Mix</p>	<p>Not applicable. EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</p> <p>Not applicable. Not applicable. Not applicable. Not applicable. EYE IRRITATION - Category 2B Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.</p>
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#### Composition/information on ingredients

Name	%	Classification
<b>SureSelect Hyb 1</b> Sodium dihydrogenorthophosphate	≤3	EYE IRRITATION - Category 2B
<b>SureSelect Hyb 2</b> Edetic acid	≥10 - ≤25	ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
<b>SureSelect RNase Block</b> Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
<b>SureSelect Hyb 3</b> .alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl, polymer with 2-(chloromethyl)oxirane	≤3	COMBUSTIBLE DUSTS
2-Pyrrolidinone, 1-ethenyl-, homopolymer	≤3	COMBUSTIBLE DUSTS

### State regulations

**Massachusetts** : The following components are listed: GLYCERINE MIST; ETHYLENEDIAMINE TETRAACETIC ACID

**New York** : The following components are listed: Ethylenediamine tetraacetic acid

## Section 15. Regulatory information

**New Jersey** : The following components are listed: GLYCERIN; ETHYLENEDIAMINETETRAACETIC ACID

**Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL; GLYCINE, N, N'-1,2-ETHANEDIYLBIS[N-(CARBOXYMETHYL)-

### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

**Australia** : Not determined.  
**Canada** : Not determined.  
**China** : All components are listed or exempted.  
**Japan** : **Japan inventory (CSCL)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**New Zealand** : Not determined.  
**Philippines** : Not determined.  
**Republic of Korea** : Not determined.  
**Taiwan** : All components are listed or exempted.  
**Thailand** : Not determined.  
**Turkey** : Not determined.  
**United States** : All components are active or exempted.  
**Viet Nam** : Not determined.

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
<b>SureSelect Hyb 2</b> EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method Calculation method
<b>SureSelect RNase Block</b> EYE IRRITATION - Category 2B	Calculation method

### History

**Date of issue/Date of revision** : 03/21/2024  
**Date of previous issue** : 03/30/2021  
**Version** : 6

## Section 16. Other information

### Key to abbreviations

- : 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
- UN = United Nations

✔ Indicates information that has changed from previously issued version.

### Notice to reader

**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.