Section 1. Identification

Product identifier : SureSelect Methyl-Seq Target Enrichment-Box 1
Part No. (Chemical Kit) : 5190-5000, 5190-5002
Part No.  :
SureSelect Hyb 1 5190-4396 / 5190-4404
SureSelect Hyb 2 5190-4397 / 5190-4405
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 Elution Buffer 5190-4410

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

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 Elution Buffer 5.8 ml

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

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

Section 2. Hazard(s) identification

Classification of the substance or mixture
SureSelect Hyb 1
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
SureSelect Hyb 4
H402 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3
SureSelect Hyb 1 Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
SureSelect Hyb 2 Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%
SureSelect Hyb 4 Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
SureSelect Binding Buffer Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
# Section 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th>SureSelect Hyb 1</th>
</tr>
</thead>
</table>

## Signal word
- SureSelect Hyb 1: WARNING
- SureSelect Hyb 2: No signal word.
- 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 Elution Buffer: No signal word.

## Hazard statements
- SureSelect Hyb 1: H319 - Causes serious eye irritation.
- SureSelect Hyb 2: No known significant effects or critical hazards.
- SureSelect Hyb 4: H402 - Harmful to aquatic life.
- 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 Elution Buffer: No known significant effects or critical hazards.

## Precautionary statements

### Prevention
- SureSelect Hyb 1: P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
- SureSelect Hyb 2: Not applicable.
- SureSelect Hyb 4: P273 - Avoid release to the environment.
- SureSelect Binding Buffer: Not applicable.
- SureSelect Wash Buffer 1: Not applicable.
- SureSelect Wash Buffer 2: Not applicable.
- SureSelect Elution Buffer: Not applicable.

### Response
- SureSelect Hyb 1: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
- 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 Elution Buffer: Not applicable.

### Storage
- 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 Elution Buffer: Not applicable.

### Disposal
- SureSelect Hyb 1: Not applicable.
- SureSelect Hyb 2: Not applicable.
- SureSelect Hyb 4: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- SureSelect Binding Buffer: Not applicable.
- SureSelect Wash Buffer 1: Not applicable.
- SureSelect Wash Buffer 2: Not applicable.
- SureSelect Elution Buffer: Not applicable.
SureSelect Methyl-Seq Target Enrichment-Box 1

Section 2. Hazard(s) identification

Supplemental label elements:
- 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 Elution Buffer: Not applicable.

Other hazards which do not result in classification:
- 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 Elution Buffer: None known.

Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>SureSelect Hyb 1</th>
<th>SureSelect Hyb 2</th>
<th>SureSelect Hyb 4</th>
<th>SureSelect Binding Buffer</th>
<th>SureSelect Wash Buffer 1</th>
<th>SureSelect Wash Buffer 2</th>
<th>SureSelect Elution Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sofaidecyl monododecyl ester sodium salt (1:1)</td>
<td>Mixture</td>
<td>Mixture</td>
<td>Mixture</td>
<td>Mixture</td>
<td>Mixture</td>
<td>Mixture</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>≥10 - ≤30</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>&lt;2.5</td>
<td>8012-56-4</td>
</tr>
</tbody>
</table>

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

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

Section 4. First aid measures

Eye contact:
- SureSelect Hyb 1: 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 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 Hyb 4: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if 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.
Section 4. First aid measures

**SureSelect Wash Buffer 2**
Check for and remove any contact lenses. Get medical attention if irritation occurs.
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 Elution 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.

**Inhalation**
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 1**
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 2**
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 Hyb 4**
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 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 Elution Buffer**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**
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 1**
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. Get medical attention if symptoms occur.

**SureSelect Hyb 4**
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 Binding Buffer**
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
### Section 4. First aid measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Ingestion Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Wash out mouth with water.  Remove dentures if any.  Remove victim to fresh air and keep at rest in a</td>
</tr>
<tr>
<td></td>
<td>position comfortable for breathing.  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.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Wash out mouth with water.  Remove victim to fresh air and keep at rest in a position comfortable for breathing.  If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.  Do not induce vomiting unless directed to do so by medical personnel.  Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Hyb 1</td>
<td>Wash out mouth with water.  Remove dentures if any.  Remove victim to fresh air and keep at rest in a</td>
</tr>
<tr>
<td></td>
<td>position comfortable for breathing.  If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.  Do not induce vomiting unless directed to do so by medical personnel.  Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Wash out mouth with water.  Remove victim to fresh air and keep at rest in a position comfortable for breathing.  If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.  Do not induce vomiting unless directed to do so by medical personnel.  Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Wash out mouth with water.  Remove dentures if any.  Remove victim to fresh air and keep at rest in a</td>
</tr>
<tr>
<td></td>
<td>position comfortable for breathing.  If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.  Do not induce vomiting unless directed to do so by medical personnel.  Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Wash out mouth with water.  Remove victim to fresh air and keep at rest in a position comfortable for breathing.  If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.  Do not induce vomiting unless directed to do so by medical personnel.  Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Wash out mouth with water.  Remove victim to fresh air and keep at rest in a position comfortable for breathing.  If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.  Do not induce vomiting unless directed to do so by medical personnel.  Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

SureSelect Wash Buffer 2: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

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

**Potential acute health effects**

**Eye contact**
- SureSelect Hyb 1: Causes serious eye irritation.
- 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 Elution Buffer: 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 Elution Buffer: 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 Elution Buffer: 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 Elution Buffer: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**
- SureSelect Hyb 1: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

- 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 Elution Buffer: No specific data.
### Section 4. First aid measures

<table>
<thead>
<tr>
<th><strong>Inhalation</strong></th>
<th><strong>SureSelect Hyb 1</strong></th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>SureSelect Hyb 2</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Hyb 4</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Elution Buffer</strong></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Skin contact</strong></th>
<th><strong>SureSelect Hyb 1</strong></th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>SureSelect Hyb 2</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Hyb 4</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Elution Buffer</strong></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Ingestion</strong></th>
<th><strong>SureSelect Hyb 1</strong></th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>SureSelect Hyb 2</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Hyb 4</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Elution Buffer</strong></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

**Notes to physician**

<table>
<thead>
<tr>
<th><strong>SureSelect Hyb 1</strong></th>
<th>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 4</strong></td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td><strong>SureSelect Elution Buffer</strong></td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

**Specific treatments**

<table>
<thead>
<tr>
<th><strong>SureSelect Hyb 1</strong></th>
<th>No specific treatment.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
<td>No specific treatment.</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 4</strong></td>
<td>No specific treatment.</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No specific treatment.</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No specific treatment.</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No specific treatment.</td>
</tr>
<tr>
<td><strong>SureSelect Elution Buffer</strong></td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

**Protection of first-aiders**

<table>
<thead>
<tr>
<th><strong>SureSelect Hyb 1</strong></th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 4</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Action to be taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Elution Buffer</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

See toxicological information (Section 11)

Section 5. Firefighting measures

**Extinguishing media**

- **Suitable extinguishing media**
  - 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 Elution Buffer: Use an extinguishing agent suitable for the surrounding fire.

- **Unsuitable extinguishing media**
  - 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 Elution Buffer: None known.

**Specific hazards arising from the chemical**

- 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. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- 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 Elution Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**

- SureSelect Hyb 1: Decomposition products may include the following materials: phosphorus oxides, halogenated compounds, metal oxide/oxides.
- SureSelect Hyb 2: Decomposition products may include the following materials: carbon dioxide.
Section 5. Firefighting measures

Carbon monoxide
Nitrogen oxides
Metal oxide/oxides

Decomposition products may include the following materials:
Carbon dioxide
Carbon monoxide
Sulfur oxides
Metal oxide/oxides

Special protective actions for fire-fighters:

- **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 Elution 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.

Special protective equipment for fire-fighters:

- **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 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...
Section 5. Firefighting measures

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

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

- **SureSelect 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilt material. Put on appropriate personal protective equipment.

- **SureSelect Hyb 4**
  - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

- **SureSelect Wash Buffer 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 spilt material. Put on appropriate personal protective equipment.

- **SureSelect Wash Buffer 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 spilt material. Put on appropriate personal protective equipment.

- **SureSelect Elution Buffer**
  - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
### Section 6. Accidental release measures

#### Environmental precautions

<table>
<thead>
<tr>
<th>Product</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Elution Buffer</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
</tbody>
</table>

#### For emergency responders

<table>
<thead>
<tr>
<th>Product</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
<tr>
<td>SureSelect Elution Buffer</td>
<td>Same as SureSelect Hyb 1.</td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

caus ed environmental pollution (sew ers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up

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 Elution Buffer
Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

SureSelect Hyb 1
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

SureSelect Hyb 2
Put on appropriate personal protective equipment (see Section 8).

SureSelect Hyb 4
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or
Section 7. Handling and storage

Advice on general occupational hygiene

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 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 4
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 Elution 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.
### Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Conditions for safe storage, including any incompatibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
</tr>
</tbody>
</table>
Section 7. Handling and storage

SureSelect Elution 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. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

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

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

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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand 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.

Body 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.

Date of issue/Date of revision : 13/06/2017  Date of previous issue : 16/01/2017  Version : 6.1
Section 8. Exposure controls and personal protection

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

Section 9. Physical and chemical properties

Appearance

Physical state:
- SureSelect 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 Elution Buffer: Liquid.

Colour:
- 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 Elution Buffer: Not available.

Odour:
- 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 Elution Buffer: Not available.

Odour 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 Elution Buffer: Not available.

pH:
- SureSelect Hyb 1: 7.4
- SureSelect Hyb 2: 8
- SureSelect Hyb 4: 5.2 to 6.2
- SureSelect Binding Buffer: 7.5
- SureSelect Wash Buffer 1: 7
- SureSelect Wash Buffer 2: 7
- SureSelect Elution Buffer: 12.2 to 13.4

Melting 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 Elution Buffer: 0°C (32°F)

Boiling point:
- 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 Elution Buffer: 100°C (212°F)
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect Hyb 1</th>
<th>SureSelect Hyb 2</th>
<th>SureSelect Hyb 4</th>
<th>SureSelect Binding Buffer</th>
<th>SureSelect Wash Buffer 1</th>
<th>SureSelect Wash Buffer 2</th>
<th>SureSelect Elution Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
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<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 13/06/2017  
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**Version**: 6.1
Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Product</th>
<th>Partition coefficient: n-octanol/water</th>
<th>Viscosity</th>
<th>Auto-ignition temperature</th>
<th>Decomposition temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

SureSelect Elution Buffer is easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Product</th>
<th>Reactivity</th>
<th>Chemical stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect Elution Buffer</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

Reactivity: No specific test data related to reactivity available for this product or its ingredients. 

Chemical stability: The product is stable.
### Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Possibility of hazardous reactions</th>
<th>SureSelect Hyb 1</th>
<th>Under normal conditions of storage and use, hazardous reactions will not occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 4</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Elution Buffer</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>SureSelect Hyb 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 4</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Elution Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>SureSelect Hyb 1</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 4</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Elution Buffer</td>
<td>Reactive or incompatible with the following materials: acids</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>SureSelect Hyb 1</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 4</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Elution Buffer</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>
### Section 11. Toxicological information

#### Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Sodium chloride</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Sodium chloride</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 4</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

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

Not available.

#### Aspiration hazard

Not available.

#### Information on likely routes of exposure

- SureSelect Hyb 1
- SureSelect Hyb 2
- SureSelect Hyb 4
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
- SureSelect Elution Buffer

Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

#### Potential acute health effects
Section 11. Toxicological information

Eye contact
- **SureSelect Hyb 1**: Causes serious eye irritation.
- **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 Elution Buffer**: 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 Elution Buffer**: 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 Elution Buffer**: No known significant effects or critical hazards.

Ingestion
- **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 Elution Buffer**: No specific data.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
- **SureSelect Hyb 1**: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness
- **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 Elution Buffer**: No specific data.

Inhalation
- **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 Elution Buffer**: No specific data.

Skin contact
- **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 Elution Buffer**: No specific data.
### Section 11. Toxicological information

**Ingestion**
- 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 Elution Buffer: No specific data.

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

#### Short term exposure
- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

#### Long term exposure
- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

### Potential chronic health effects
Not available.

### General
- 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 Elution Buffer: No known significant effects or critical hazards.

### Carcinogenicity
- 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 Elution Buffer: No known significant effects or critical hazards.

### Mutagenicity
- 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 Elution Buffer: No known significant effects or critical hazards.

### Teratogenicity
- 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 Elution Buffer: No known significant effects or critical hazards.

### Developmental effects
- 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 Elution Buffer: No known significant effects or critical hazards.

### Potential chronic health effects
Not available.

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Date of issue/Date of revision: 13/06/2017  
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**Section 11. Toxicological information**

**Fertility effects**
- 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 Elution Buffer: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 2 Oral</td>
<td>13698.6 mg/kg</td>
</tr>
<tr>
<td>SureSelect Hyb 4 Oral Inhalation (dusts and mists)</td>
<td>128800 mg/kg 150 mg/l</td>
</tr>
</tbody>
</table>

**Section 12. Ecological information**

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1 Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosa</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute IC50 6.87 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1.56 g/L Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1000000 μg/l Fresh water</td>
<td>Fish - Morone saxatilis - Larvae</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic LC10 781 g/L Fresh water</td>
<td>Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)</td>
<td>3 weeks</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.314 g/L Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Fish - Gambusia holbrooki - Adult</td>
<td>8 weeks</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

Not available.

**Bioaccumulative potential**

Not available.

**Mobility in soil**

**Soil/water partition coefficient (KOC)**: Not available.

**Other adverse effects**: No known significant effects or critical hazards.
Section 13. Disposal considerations

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Model Work Health and Safety Regulations - Scheduled Substances
No listed substance

International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol (Annexes A, B, C, E)
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list
Australia: Not determined.
Canada: Not determined.
China: Not determined.
Europe: Not determined.
Malaysia: Not determined.
New Zealand: Not determined.
Philippines: Not determined.

Date of issue/Date of revision: 13/06/2017
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Section 15. Regulatory information

- Republic of Korea: Not determined.
- Taiwan: Not determined.
- Thailand: Not determined.
- Turkey: Not determined.
- United States: Not determined.
- Viet Nam: Not determined.

Section 16. Any other relevant information

**History**
- Date of issue/Date of revision: 13/06/2017
- Date of previous issue: 16/01/2017
- Version: 6.1

**Key to abbreviations**: ADG = Australian Dangerous Goods
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

**Procedure used to derive the classification**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2A, H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 3, H402</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

**References**: Not available.

**Notice to reader**

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