SAFETY DATA SHEET
Early Access OneSeq Phased Exome Target Enrichment Box 1, Part Number 5190-9543

Section 1. Identification

**Product identifier**: Early Access OneSeq Phased Exome Target Enrichment Box 1, Part Number 5190-9543

**Part no. (chemical kit)**: 5190-9543

**Part no.**
- SureSelect Hyb 1: 5190-4396
- SureSelect Hyb 2: 5190-4397
- SureSelect Hyb 4: 5190-4406
- SureSelect Binding Buffer: 5190-4399
- SureSelect Wash Buffer 1: 5190-4400
- SureSelect Wash Buffer 2: 5190-4401

**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

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

**Material uses**: Analytical reagent.
- SureSelect Hyb 1: 0.4 ml
- SureSelect Hyb 2: 1.25 ml
- SureSelect Hyb 4: 1.25 ml
- SureSelect Binding Buffer: 13.2 ml
- SureSelect Wash Buffer 1: 8 ml
- SureSelect Wash Buffer 2: 24 ml

Section 2. Hazard(s) identification

**Classification of the substance or mixture**

**SureSelect Hyb 1**
- H319: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

**SureSelect Hyb 2**
- H373: SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
- SureSelect Hyb 4

**GHS label elements**

**Hazard pictograms**: 
- SureSelect Hyb 1
- SureSelect Hyb 2

**Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment**: 1%
## Section 2. Hazard(s) identification

### Signal word
- SureSelect Hyb 1: WARNING
- 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.

### Hazard statements
- **SureSelect Hyb 1**: H319 - Causes serious eye irritation.
- **SureSelect Hyb 2**: 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.

### Precautionary statements

#### Prevention
- **SureSelect Hyb 1**: P280 - Wear eye or face protection.
- **SureSelect Hyb 2**: P260 - Do not breathe vapour.
- **SureSelect Hyb 4**: Not applicable.
- **SureSelect Binding Buffer**: Not applicable.
- **SureSelect Wash Buffer 1**: Not applicable.
- **SureSelect Wash Buffer 2**: 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.
- **SureSelect Hyb 2**: P337 + P313 - If eye irritation persists: Get medical advice or attention.
- **SureSelect Hyb 4**: Not applicable.
- **SureSelect Binding Buffer**: Not applicable.
- **SureSelect Wash Buffer 1**: Not applicable.
- **SureSelect Wash Buffer 2**: 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.

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

### Supplemental label elements

#### Additional warning phrases
- **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.

### 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.
Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Sodium chloride</td>
<td>≥10 - ≤30</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>≥10 - &lt;30</td>
<td>139-33-3</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

**Description of necessary 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. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

- **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.

**Inhalation**

- **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. If not breathing, if
Section 4. First aid measures

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.

Skin contact

Ingestion

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 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...
Section 4. First aid measures

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 tight clothing such as a collar, tie, belt or waistband.

SureSelect Hyb 4 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.

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.

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.

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.

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.

Over-exposure signs/symptoms
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Notes to physician</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 1</strong></td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 4</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

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

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

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

**Notes to physician**

- **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.

**Specific treatments**

- **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.
Section 4. First aid measures

Protection of first-aiders:
- SureSelect Hyb 1: 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 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.
- 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.

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.

- 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.

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.
- 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.

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, carbon monoxide.
Section 5. Firefighting measures

SureSelect Hyb 4  
Decomposition products may include the following materials:  
nitrogen oxides  
metal oxide/oxides

SureSelect Binding Buffer  
Decomposition products may include the following materials:  
metal oxide/oxides

SureSelect Wash Buffer 1  
No specific data.

SureSelect Wash Buffer 2  
No specific data.

**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.

**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 (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.
## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

<table>
<thead>
<tr>
<th>Material</th>
<th>Action</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>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 spill material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>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 spill material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>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 spill material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>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 spill material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>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 spill material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>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 spill material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
</tbody>
</table>

**For emergency responders**

<table>
<thead>
<tr>
<th>Material</th>
<th>Action</th>
<th>Precautions</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>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 2</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>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 4</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>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</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>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 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>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</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>
<td></td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : SureSelect Hyb 1
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SureSelect Hyb 2
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SureSelect Hyb 4
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SureSelect Binding Buffer
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SureSelect Wash Buffer 1
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SureSelect Wash Buffer 2
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for 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.
Section 6. Accidental release measures

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.

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). Do not breathe vapour 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).

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
Section 7. Handling and storage

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 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 unlabelled 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 unlabelled 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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect Wash Buffer 1
Store in accordance with local regulations. Store in
Section 7. Handling and storage

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

SureSelect 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 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

- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

- Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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 and safety characteristics

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

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.

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.

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.

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.

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

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)

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)

Flash point:
- Not available.
## Section 9. Physical and chemical properties and safety characteristics

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapour Pressure at 20˚C</th>
<th>Vapour pressure at 50˚C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td>SureSelect Hyb 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Edetic acid</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties and safety characteristics

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>°C</th>
<th>°F</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edetic acid</td>
<td>&gt;400</td>
<td>&gt;752</td>
<td>VDI 2263</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>&gt;400</td>
<td>&gt;752</td>
<td>EU A.16</td>
</tr>
<tr>
<td>Edetic acid</td>
<td>&gt;400</td>
<td>&gt;752</td>
<td>VDI 2263</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties and safety characteristics

<table>
<thead>
<tr>
<th>SureSelect Wash Buffer 1</th>
<th>Sodium dodecyl sulphate</th>
<th>310.5</th>
<th>590.9</th>
<th>VDI 2263</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Sodium dodecyl sulphate</td>
<td>310.5</td>
<td>590.9</td>
<td>VDI 2263</td>
</tr>
</tbody>
</table>

Decomposition temperature:

- 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.

Viscosity:

- 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.

Particle characteristics:

Median particle size:

- 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.

Section 10. Stability and reactivity

Reactivity:

- 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.

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.

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.

Date of issue/Date of revision: 29/09/2021
Date of previous issue: 22/05/2019
Version: 3
Section 10. Stability and reactivity

hazardous reactions will not occur.

**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.

**Incompatible materials**
- SureSelect Hyb 1: May react or be incompatible with oxidising materials.
- SureSelect Hyb 2: May react or be incompatible with oxidising materials.
- SureSelect Hyb 4: May react or be incompatible with oxidising materials.
- SureSelect Binding Buffer: May react or be incompatible with oxidising materials.
- SureSelect Wash Buffer 1: May react or be incompatible with oxidising materials.
- SureSelect Wash Buffer 2: May react or be incompatible with oxidising materials.

**Hazardous decomposition products**
- 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.

Section 11. Toxicological information

**Information on toxicological effects**

**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>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>Disodium dihydrogen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ethylenediaminetetraacetate</td>
<td></td>
<td></td>
<td></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>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 mg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Sensitisation**
Not available.

**Mutagenicity**
Section 11. Toxicological information

**Conclusion/Summary**
- Carcinogenicity: Not available.
- Reproductive toxicity: Not available.
- Teratogenicity: Not available.

**Specific target organ toxicity (single exposure)**
Not available.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
<td>Category 2</td>
<td>inhalation</td>
<td>respiratory tract</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aspiration hazard**
Not available.

**Information on likely routes of exposure**

- SureSelect Hyb 1: Routes of entry anticipated: Oral, Dermal, Inhalation.
- SureSelect Hyb 2: Routes of entry anticipated: Oral, Dermal, Inhalation.
- SureSelect Hyb 4: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.

**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.

**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.

**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.

**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.

**Symptoms related to the physical, chemical and toxicological characteristics**
Section 11. Toxicological information

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.

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.

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.

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.

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
- General:
  - 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.

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.

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.

Date of issue/Date of revision: 29/09/2021
Date of previous issue: 22/05/2019
Version: 3
Section 11. Toxicological information

Reproductive toxicity:
- 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.

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>3000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>13698.6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>10.3</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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 LC50 6.87 g/L Fresh water</td>
<td>Aquatic plants - Lemma minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 10 000 000 μg/l Fresh water</td>
<td>Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic LC10 781 mg/l Fresh water</td>
<td>Aquatic plants - Lemma minor</td>
<td>3 weeks</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.314 g/L Fresh water</td>
<td>Fish - Gambusia holbrooki - Adult</td>
<td>8 weeks</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Daphnia</td>
<td>21 days</td>
</tr>
</tbody>
</table>

Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 2</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
</tbody>
</table>

Bioaccumulative potential

Date of issue/Date of revision: 29/09/2021
Date of previous issue: 22/05/2019
Version: 3
Page: 21/23
Section 12. Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP \text{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 2</td>
<td>-4.3</td>
<td>1.8</td>
<td>low</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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

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

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

Section 15. Regulatory information

**Standard for the Uniform Scheduling of Medicines and Poisons**
Not regulated.

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

**International regulations**

- **Chemical Weapon Convention List Schedules I, II & III Chemicals**
  Not listed.

- **Montreal Protocol**
  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.

**Date of issue/Date of revision** : 29/09/2021
**Date of previous issue** : 22/05/2019
**Version** : 3
Section 15. Regulatory information

Inventory list

- **Australia**: Not determined.
- **Canada**: Not determined.
- **China**: Not determined.
- **Europe**: Not determined.
- **Japan**:
  - **Japan inventory (CSCL)**: All components are listed or exempted.
  - **Japan inventory (ISHL)**: All components are listed or exempted.
- **New Zealand**: Not determined.
- **Philippines**: Not determined.
- **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**: 29/09/2021
- **Date of previous issue**: 22/05/2019
- **Version**: 3

Key to abbreviations

- ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- N/A = Not available
- 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><strong>SureSelect Hyb 1</strong></td>
<td>Calculation method</td>
</tr>
<tr>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</td>
<td></td>
</tr>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
<td>Calculation method</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2</td>
<td></td>
</tr>
</tbody>
</table>

References

- Not available.

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.