# SAFETY DATA SHEET

SureSelect Target Enrichment Box 1- On Bead, 96 Reactions, Part Number 5190-9460

## Section 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>:</th>
<th>SureSelect Target Enrichment Box 1- On Bead, 96 Reactions, Part Number 5190-9460</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part no. (chemical kit)</td>
<td>:</td>
<td>5190-9460</td>
</tr>
<tr>
<td>Part no.</td>
<td>:</td>
<td>5190-4404 SureSelect Hyb 1 5190-4397 SureSelect Hyb 2 5190-4406 SureSelect Hyb 4 5190-4407 SureSelect Binding Buffer 5190-4408 SureSelect Wash Buffer 1 5190-4409 SureSelect Wash Buffer 2</td>
</tr>
</tbody>
</table>

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

#### Material uses:
- Analytical reagent.
  - SureSelect Hyb 1: 2.4 ml
  - SureSelect Hyb 2: 1.25 ml
  - SureSelect Hyb 4: 1.25 ml
  - SureSelect Binding Buffer: 3 x 80 ml
  - SureSelect Wash Buffer 1: 3 x 48 ml
  - SureSelect Wash Buffer 2: 3 x 144 ml

<table>
<thead>
<tr>
<th>Supplier/Manufacturer</th>
<th>:</th>
<th>Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency telephone number (with hours of operation)</td>
<td>:</td>
<td>CHEMTREC®: +(61)-290372994</td>
</tr>
</tbody>
</table>

## 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**
- Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1%

### GHS label elements

**Hazard pictograms**
- SureSelect Hyb 1
- SureSelect Hyb 2
## Section 2. Hazard(s) identification

### Signal word
<table>
<thead>
<tr>
<th>Product</th>
<th>Signal word</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>WARNING</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>WARNING</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>No signal word.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No signal word.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No signal word.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No signal word.</td>
</tr>
</tbody>
</table>

### Hazard statements
<table>
<thead>
<tr>
<th>Product</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>H319 - Causes serious eye irritation.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>H373 - May cause damage to organs through prolonged or repeated exposure. (respiratory tract)</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Precautionary statements

#### Prevention
<table>
<thead>
<tr>
<th>Product</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>P280 - Wear eye or face protection.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>P260 - Do not breathe vapour.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Response
<table>
<thead>
<tr>
<th>Product</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>P314 - Get medical advice/attention if you feel unwell.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Storage
<table>
<thead>
<tr>
<th>Product</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Disposal
<table>
<thead>
<tr>
<th>Product</th>
<th>Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Supplemental label elements

#### Additional warning phrases
<table>
<thead>
<tr>
<th>Product</th>
<th>Additional warning phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Other hazards which do not result in classification
<table>
<thead>
<tr>
<th>Product</th>
<th>Other hazards which do not result in classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>None known.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>None known.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>None known.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>None known.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>None known.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>None known.</td>
</tr>
</tbody>
</table>
SureSelect Hyb 1
Sodium chloride
≥10 - ≤30
7647-14-5

SureSelect Hyb 2
Disodium dihydrogen ethylenediaminetetraacetate
≥10 - <30
139-33-3

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

SureSelect Hyb 1
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
## SureSelect Target Enrichment Box 1- On Bead, 96 Reactions, Part Number 5190-9460

### Section 4. First aid measures

#### 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.

### 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.

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
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

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

SureSelect Wash Buffer 1
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.
<table>
<thead>
<tr>
<th>Personal precautions, protective equipment and emergency procedures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For non-emergency personnel</strong></td>
<td><strong>SureSelect Hyb 1</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Hyb 2</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Hyb 4</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Binding Buffer</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
</tr>
<tr>
<td><strong>For emergency responders</strong></td>
<td><strong>SureSelect Hyb 1</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Hyb 2</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Hyb 4</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Binding Buffer</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></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 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.
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

<table>
<thead>
<tr>
<th>Product</th>
<th>Storage Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Hyb 1</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>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.</td>
</tr>
</tbody>
</table>
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

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Hand protection

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

Body protection

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

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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: 7.1 to 8.1
- SureSelect Wash Buffer 1: 7.5
- 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:
Section 9. Physical and chemical properties and safety characteristics

### Evaporation rate
- **SureSelect Hyb 1**: Not available.
- **SureSelect Hyb 2**: Not available.
- **SureSelect Hyb 4**: Not available.
- **SureSelect Binding Buffer**: Not available.
- **SureSelect Wash Buffer 1**: Not available.
- **SureSelect Wash Buffer 2**: Not available.

### Flammability
- **SureSelect Hyb 1**: Not applicable.
- **SureSelect Hyb 2**: Not applicable.
- **SureSelect Hyb 4**: Not applicable.
- **SureSelect Binding Buffer**: Not applicable.
- **SureSelect Wash Buffer 1**: Not applicable.
- **SureSelect Wash Buffer 2**: Not applicable.

### Lower and upper explosion limit/flammability limit
- **SureSelect Hyb 1**: Not available.
- **SureSelect Hyb 2**: Not available.
- **SureSelect Hyb 4**: Not available.
- **SureSelect Binding Buffer**: Not available.
- **SureSelect Wash Buffer 1**: Not available.
- **SureSelect Wash Buffer 2**: Not available.

### Vapour pressure

<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><strong>SureSelect Hyb 1</strong></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><strong>SureSelect Hyb 2</strong></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><strong>SureSelect Hyb 4</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxyethyl)propane-</td>
<td>0</td>
<td>0</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>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>&gt;400</td>
<td>&gt;752</td>
<td>EU A.16</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>

Relative vapour density:
- SureSelect Hyb 1: Not available.
- SureSelect Hyb 2: Not available.
- SureSelect Hyb 4: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.

Relative density:
- SureSelect Hyb 1: Not available.
- SureSelect Hyb 2: Not available.
- SureSelect Hyb 4: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.

Solubility:
- SureSelect Hyb 1: Easily soluble in the following materials: cold water and hot water.
- SureSelect Hyb 2: Easily soluble in the following materials: cold water and hot water.
- SureSelect Hyb 4: Easily soluble in the following materials: cold water and hot water.
- SureSelect Binding Buffer: Easily soluble in the following materials: cold water and hot water.
- SureSelect Wash Buffer 1: Easily soluble in the following materials: cold water and hot water.
- SureSelect Wash Buffer 2: Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water:
- 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 9. Physical and chemical properties and safety characteristics

<table>
<thead>
<tr>
<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></td>
<td></td>
<td></td>
</tr>
<tr>
<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.
Section 10. Stability and reactivity

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 Sodium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Hyb 2 Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2 g/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 Sodium chloride</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 mg</td>
<td>-</td>
</tr>
<tr>
<td></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
Conclusion/Summary: Not available.

Carcinogenicity

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

Conclusion/Summary: Not available.

Reproductive toxicity
Conclusion/Summary: Not available.

Teratogenicity
Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)

<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 2</td>
<td>Category 2</td>
<td>inhalation</td>
<td>respiratory tract</td>
</tr>
</tbody>
</table>

Aspiration hazard
Not available.

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Potential acute health effects

Eye contact: SureSelect Hyb 1
Causes serious eye irritation.

Inhalation: SureSelect Hyb 1
No known significant effects or critical hazards.

Sky contact: SureSelect Hyb 1
No known significant effects or critical hazards.

Ingestion: SureSelect Hyb 1
No known significant effects or critical hazards.

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Route of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 2</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

SureSelect Wash Buffer 2  No specific data.
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.

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.

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

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Section 11. Toxicological information

<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>13698.6</td>
<td>N/A</td>
<td>N/A</td>
<td>10.3</td>
<td>1.5</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>2000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>128800</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</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>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
<td>96 hours</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosa</td>
<td>48 hours</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Acute IC50 6.87 g/L Fresh water</td>
<td>Aquatic plants - Lehma minor</td>
<td>96 hours</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</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 mg/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>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Fish - Gambusia holbrooki - Adult</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 25 mg/l</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>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
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Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP_{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>
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</tr>
</tbody>
</table>

Mobility in soil

Soil/water partition coefficient (K_{OC}): Not available.

Other adverse effects: 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 21/23
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.

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.

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

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>
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</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 1</strong></td>
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</tr>
<tr>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</td>
<td>Calculation method</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
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</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

References
Not available.

indicates information that has changed from previously issued version.

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