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

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

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

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

Section 2. Hazard(s) identification

Classification of the substance or mixture
SureSelect Hyb 1
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

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

GHS label elements
Hazard pictograms :

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.

Date of issue/Date of revision : 12/09/2016
Date of previous issue : 12/09/2016.
Version : 1
1/22
### Section 2. Hazard(s) identification

#### Hazard statements
- **SureSelect Hyb 1**: H319 - Causes serious eye irritation.
- **SureSelect Hyb 2**: H319 - Causes serious eye irritation.
- **SureSelect Hyb 4**: No known significant effects or critical hazards.
- **SureSelect Binding Buffer**: No known significant effects or critical hazards.
- **SureSelect Wash Buffer 1**: No known significant effects or critical hazards.
- **SureSelect Wash Buffer 2**: No known significant effects or critical hazards.

#### Precautionary statements

**Prevention**
- **SureSelect Hyb 1**: P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
- **SureSelect Hyb 2**: P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
- **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. P337 + P313 - If eye irritation persists: Get medical attention.
- **SureSelect Hyb 2**: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
- **SureSelect Hyb 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**: Not applicable.
- **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**
- **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

### Substance/mixture
- SureSelect Hyb 1: Mixture
- SureSelect Hyb 2: Mixture
- SureSelect Hyb 4: Mixture
- SureSelect Binding Buffer: Mixture
- SureSelect Wash Buffer 1: Mixture
- SureSelect Wash Buffer 2: Mixture

### CAS number/other identifiers

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>≥10 - ≤30</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>Edetic acid</td>
<td>≥10 - ≤30</td>
<td>60-00-4</td>
</tr>
</tbody>
</table>

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

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

Section 4. First aid measures

#### 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.
- 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 breathing is irregular or if respiratory arrest occurs,
Section 4. First aid measures

SureSelect Hyb 1
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

SureSelect Hyb 2
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

SureSelect Hyb 4
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

SureSelect Wash Buffer 1
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureSelect Wash Buffer 2
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Skin contact

SureSelect Hyb 1
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SureSelect Hyb 2
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SureSelect Hyb 4
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

SureSelect Wash Buffer 1
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureSelect Wash Buffer 2
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

SureSelect Hyb 1
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has
Section 4. First aid measures

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 4
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

SureSelect Wash Buffer 1
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact
- SureSelect Hyb 1: Causes serious eye irritation.
- SureSelect Hyb 2: Causes serious eye irritation.
- SureSelect Hyb 4: No known significant effects or critical hazards.
- SureSelect Binding Buffer: No known significant effects or critical hazards.
- SureSelect Wash Buffer 1: No known significant effects or critical hazards.
- SureSelect Wash Buffer 2: No known significant effects or critical hazards.

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.
Section 4. First aid measures

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:

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

- SureSelect Hyb 2: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

- SureSelect Hyb 4: No specific data.
- SureSelect Binding Buffer: No specific data.
- SureSelect Wash Buffer 1: No specific data.
- SureSelect Wash Buffer 2: No specific data.

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: Treated 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.
### Section 4. First aid measures

<table>
<thead>
<tr>
<th>Specific treatments</th>
<th>Protection of first-aiders</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>SureSelect Hyb 1</td>
<td>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</td>
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<tr>
<td>SureSelect Hyb 4</td>
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<td>SureSelect Binding Buffer</td>
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<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

**See toxicological information (Section 11)**

### Section 5. Firefighting measures

#### Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</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>
<tr>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
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</tr>
</tbody>
</table>

#### Specific hazards arising from the chemical

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
</tr>
</tbody>
</table>
# Section 5. Firefighting measures

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>SureSelect Hyb 1</th>
<th>Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 4</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>Decomposition products may include the following materials: halogenated compounds metal oxide/oxides</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
<th>SureSelect Hyb 1</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 4</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
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<td>SureSelect Wash Buffer 1</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>SureSelect Hyb 1</th>
<th>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
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<td>SureSelect Hyb 4</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
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<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>
Section 5. Firefighting measures

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
- **SureSelect Hyb 1**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **SureSelect Hyb 2**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **SureSelect Hyb 4**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- **SureSelect Binding Buffer**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- **SureSelect Wash Buffer 1**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- **SureSelect Wash Buffer 2**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders:
- **SureSelect Hyb 1**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **SureSelect Hyb 2**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **SureSelect Hyb 4**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **SureSelect Binding Buffer**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Date of issue/Date of revision: 12/09/2016  Date of previous issue: 12/09/2016  Version: 1
## Section 6. Accidental release measures

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

**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.
Section 6. Accidental release measures

- **SureSelect Wash Buffer 1**
  - Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

- **SureSelect Wash Buffer 2**
  - Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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 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 4
  - **SureSelect Binding Buffer**
  - **SureSelect Wash Buffer 1**
  - **SureSelect Wash Buffer 2**

**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
  - SureSelect Hyb 4

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SureSelect Binding Buffer

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect Wash Buffer 1

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect Wash Buffer 2

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect 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.

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.

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.

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.
Section 7. Handling and storage

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

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.

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: chemical splash goggles.

Skin protection
Hand protection
- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection
- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Section 8. Exposure controls and personal protection

**Other skin protection**

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

**Respiratory protection**

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

Section 9. Physical and chemical properties

**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: Not available.
- SureSelect Binding Buffer: 7.5
- SureSelect Wash Buffer 1: 7
- SureSelect Wash Buffer 2: 7

**Melting point**:
- SureSelect Hyb 1: Not available.
- SureSelect Hyb 2: Not available.
- SureSelect Hyb 4: 0°C (32°F)
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: 0°C (32°F)
- SureSelect Wash Buffer 2: 0°C (32°F)

**Boiling point**:
- SureSelect Hyb 1: Not available.
- SureSelect Hyb 2: Not available.
- SureSelect Hyb 4: 100°C (212°F)
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: 100°C (212°F)
- SureSelect Wash Buffer 2: 100°C (212°F)

**Flash point**:
- 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.
## Section 9. Physical and chemical properties

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

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### Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect Hyb 1</th>
<th>SureSelect Hyb 2</th>
<th>SureSelect Hyb 4</th>
<th>SureSelect Binding Buffer</th>
<th>SureSelect Wash Buffer 1</th>
<th>SureSelect Wash Buffer 2</th>
</tr>
</thead>
</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. |

### 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. |

**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. |
Section 10. Stability and reactivity

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>4000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Edetic acid</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 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitisation
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.
### Section 11. Toxicological information

**Aspiration hazard**
- Not available.

#### Information on likely routes of exposure

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

#### Potential acute health effects

**Eye contact**
- Causes serious eye irritation.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.

**Inhalation**
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.

**Skin contact**
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.

**Ingestion**
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.

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

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

**Inhalation**
- No specific data.
## Section 11. Toxicological information

### 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
Not available.

#### General
- SureSelect Hyb 1: No known significant effects or critical hazards.
- SureSelect Hyb 2: No known significant effects or critical hazards.
- SureSelect Hyb 4: No known significant effects or critical hazards.
- SureSelect Binding Buffer: No known significant effects or critical hazards.
- SureSelect Wash Buffer 1: No known significant effects or critical hazards.
- SureSelect Wash Buffer 2: No known significant effects or critical hazards.

#### 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.

#### Teratogenicity
- SureSelect Hyb 1: No known significant effects or critical hazards.
- SureSelect Hyb 2: No known significant effects or critical hazards.
- SureSelect Hyb 4: No known significant effects or critical hazards.
- SureSelect Binding Buffer: No known significant effects or critical hazards.
- SureSelect Wash Buffer 1: No known significant effects or critical hazards.
- SureSelect Wash Buffer 2: No known significant effects or critical hazards.

#### Developmental effects
- SureSelect Hyb 1: No known significant effects or critical hazards.
- SureSelect Hyb 2: No known significant effects or critical hazards.
- SureSelect Hyb 4: No known significant effects or critical hazards.
- SureSelect Binding Buffer: No known significant effects or critical hazards.
- SureSelect Wash Buffer 1: No known significant effects or critical hazards.
- SureSelect Wash Buffer 2: No known significant effects or critical hazards.

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**Fertility effects**
- SureSelect Hyb 1: No known significant effects or critical hazards.
- SureSelect Hyb 2: No known significant effects or critical hazards.
- SureSelect Hyb 4: No known significant effects or critical hazards.
- SureSelect Binding Buffer: No known significant effects or critical hazards.
- SureSelect Wash Buffer 1: No known significant effects or critical hazards.
- SureSelect Wash Buffer 2: No known significant effects or critical hazards.

Numerical measures of toxicity

**Acute toxicity estimates**
Not available.

Section 12. Ecological information

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1 Sodium chloride</td>
<td>Acute EC50 2430000 μg/l Fresh water</td>
<td>Algae - Navicul a seminulum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosa</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute IC50 6.87 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1661 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1000000 μg/l Fresh water</td>
<td>Fish - Morone saxatilis - Larvae</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic LC10 781 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>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Fish - Gambusia holbrooki - Adult</td>
<td>8 weeks</td>
</tr>
</tbody>
</table>

SureSelect Hyb 2 Edetic acid

<table>
<thead>
<tr>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute EC50 113000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td>Acute LC50 59.8 mg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</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 Edetic acid</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 2 Edetic acid</td>
<td>-3.86</td>
<td>1.8</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

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

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

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

### Section 14. Transport information

**Regulatory information**

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

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

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

### Section 15. Regulatory information

**Standard Uniform Schedule of Medicine and Poisons**

6

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

No listed substance

**Australia inventory (AICS)**: All components are listed or exempted.

**International regulations**

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

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

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

Not listed.

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

Not listed.

**International lists**

**National inventory**

- **Canada**: All components are listed or exempted.
- **China**: All components are listed or exempted.
- **Europe**: All components are listed or exempted.
- **Japan**: **Japan inventory (ENCS)**: All components are listed or exempted. **Japan inventory (ISHL)**: All components are listed or exempted.
- **Malaysia**: Not determined.

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**Date of previous issue**: 12/09/2016

**Version**: 1
Section 15. Regulatory information

Republic of Korea: All components are listed or exempted.
New Zealand: All components are listed or exempted.
Philippines: All components are listed or exempted.
Taiwan: All components are listed or exempted.
Turkey: Not determined.
United States: All components are listed or exempted.

Section 16. Any other relevant information

History
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Version: 1

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

Procedure used to derive the classification

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

References: Not available.

ℹ️ Indicates information that has changed from previously issued version.

Notice to reader

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