Section 1. Identification

1.1 Product identifier
Product name : SureSelect Target Enrichment Box 1- On Bead, 96 Reactions, Part Number 5190-9460
Part no. (chemical kit) : 5190-9460
Part no. : SureSelect Hyb 1 5190-4404
           SureSelect Hyb 2 5190-4397
           SureSelect Hyb 4 5190-4406
           SureSelect Binding Buffer 5190-4407
           SureSelect Wash Buffer 1 5190-4408
           SureSelect Wash Buffer 2 5190-4409

Validation date : 9/29/2021

1.2 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

1.3 Details of the supplier of the safety data sheet
Supplier/Manufacturer : Agilent Technologies, Inc.
                        5301 Stevens Creek Blvd
                        Santa Clara, CA 95051, USA
                        800-227-9770

1.4 Emergency telephone number
In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture
OSHA/HCS status : SureSelect Hyb 1
                  SureSelect Hyb 2
                  SureSelect Hyb 4
                  SureSelect Binding Buffer
                  SureSelect Wash Buffer 1

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.
Section 2. Hazards identification

This SDS should be retained and available for employees and other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture

#### SureSelect Hyb 1
- **Signal word:** Warning
- **Hazard statements:**
  - **H319:** EYE IRRITATION - Category 2A

#### SureSelect Hyb 2
- **Signal word:** Warning
- **Hazard statements:**
  - **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%

### 2.2 GHS label elements

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

#### Signal word
- **SureSelect Hyb 1:** Warning
- **SureSelect Hyb 2:** Warning
- **SureSelect Hyb 4:** No signal word.
- **SureSelect Binding Buffer:** No signal word.
- **SureSelect Wash Buffer 1:** No signal word.
- **SureSelect Wash Buffer 2:** No signal word.

#### Hazard statements
- **SureSelect Hyb 1:**
  - **H319:** Causes serious eye irritation.
- **SureSelect Hyb 2:**
  - **H373:** May cause damage to organs through prolonged or repeated exposure. (respiratory tract)
- **SureSelect Hyb 4:**
  - **No known significant effects or critical hazards.**
- **SureSelect Binding Buffer:**
  - **No known significant effects or critical hazards.**
- **SureSelect Wash Buffer 1:**
  - **No known significant effects or critical hazards.**
- **SureSelect Wash Buffer 2:**
  - **No known significant effects or critical hazards.**

#### Precautionary statements

#### Prevention
- **SureSelect Hyb 1:** P280 - Wear eye or face protection.
- **SureSelect Hyb 2:** P260 - Do not breathe vapor.
- **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 advice or attention.
- **SureSelect Hyb 2:**
  - **P314:** Get medical advice or attention if you feel unwell.
Section 2. Hazards identification

SureSelect Hyb 1  
Not applicable.
SureSelect Binding Buffer  
Not applicable.
SureSelect Wash Buffer 1  
Not applicable.
SureSelect Wash Buffer 2  
Not applicable.

Storage  
SureSelect Hyb 1  
Not applicable.
SureSelect Hyb 2  
Not applicable.
SureSelect Hyb 4  
Not applicable.
SureSelect Binding Buffer  
Not applicable.
SureSelect Wash Buffer 1  
Not applicable.
SureSelect Wash Buffer 2  
Not applicable.

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

Supplemental label elements  
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.

2.3 Other hazards

Hazard not otherwise classified  
SureSelect Hyb 1  
None known.
SureSelect Hyb 2  
None known.
SureSelect Hyb 4  
None known.
SureSelect Binding Buffer  
None known.
SureSelect Wash Buffer 1  
None known.
SureSelect Wash Buffer 2  
None known.

Section 3. Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>≥10 - ≤25</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>≤3</td>
<td>7558-80-7</td>
</tr>
<tr>
<td>Sodium dihydrogenorthophosphate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>≥10 - ≤25</td>
<td>139-33-3</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>≤3</td>
<td>8012-56-4</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>&lt;10</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>≤0.3</td>
<td>151-21-3</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 3. Composition/information on ingredients

SureSelect Wash Buffer 2
Sodium dodecyl sulphate ≤0.3 151-21-3

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

**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 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.
Section 4. First aid measures

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.
- Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- SureSelect Hyb 4: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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 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.

4.2 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.
### Section 4. First aid measures

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>SureSelect Hyb 1</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Over-exposure signs/symptoms</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>SureSelect Hyb 1</th>
<th>Adverse symptoms may include the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>pain or irritation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>watering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>redness</td>
</tr>
</tbody>
</table>

| 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. |

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

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

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

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

<table>
<thead>
<tr>
<th>Notes to physician</th>
<th>SureSelect Hyb 1</th>
<th>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect Hyb 2</td>
<td>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 4</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

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.

Protection of first-aiders:
- SureSelect Hyb 1: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- SureSelect Hyb 2: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- SureSelect Hyb 4: No action shall be taken involving any personal risk or without suitable training.
- SureSelect Binding Buffer: No action shall be taken involving any personal risk or without suitable training.
- SureSelect Wash Buffer 1: No action shall be taken involving any personal risk or without suitable training.
- SureSelect Wash Buffer 2: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 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.

5.2 Special hazards arising from the substance or mixture

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.

Date of issue: 09/29/2021
Section 5. Fire-fighting measures

**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
    - nitrogen oxides
    - metal oxide/oxides

- **SureSelect Hyb 4**
  - Decomposition products may include the following materials:
    - 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**
  - No specific data.

- **SureSelect Wash Buffer 2**
  - No specific data.

**5.3 Advice for firefighters**

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.

Date of issue: 09/29/2021
Section 5. Fire-fighting measures

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

SureSelect Wash Buffer 1
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SureSelect Wash Buffer 2
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

SureSelect Hyb 4
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled 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 spilled 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 spilled 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 spilled material. Put on appropriate personal protective equipment.
Section 6. Accidental release measures

For emergency responders:

SureSelect Hyb 1
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SureSelect Hyb 2
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SureSelect Hyb 4
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SureSelect Binding Buffer
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SureSelect Wash Buffer 1
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SureSelect Wash Buffer 2
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions:

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

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

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

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

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

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

6.3 Methods and materials for containment and cleaning up
Section 6. Accidental release measures

Methods for cleaning up

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</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 2</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>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 Binding Buffer</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>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>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>

Section 7. Handling and storage

7.1 Precautions for safe handling

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
</tbody>
</table>
Section 7. Handling and storage

Advice on general occupational hygiene

SureSelect Wash Buffer 1
Put on appropriate personal protective equipment (see Section 8).

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

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

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

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

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

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

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

7.2 Conditions for safe storage, including any incompatibilities

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

SureSelect Hyb 2
Store in accordance with local regulations. Store in
Section 7. Handling and storage

SureSelect Hyb 4
Original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

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

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

7.3 Specific end use(s)
Section 7. Handling and storage

Recommendations:
- SureSelect Hyb 1: Industrial applications, Professional applications.
- SureSelect Hyb 2: Industrial applications, Professional applications.
- SureSelect Hyb 4: Industrial applications, Professional applications.
- SureSelect Binding Buffer: Industrial applications, Professional applications.
- SureSelect Wash Buffer 1: Industrial applications, Professional applications.
- SureSelect Wash Buffer 2: Industrial applications, Professional applications.

Industrial sector specific solutions:
- SureSelect Hyb 1: Not available.
- SureSelect Hyb 2: Not available.
- SureSelect Hyb 4: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 1</strong></td>
<td></td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>None.</td>
</tr>
<tr>
<td>Sodium dihydrogenorthophosphate</td>
<td>None.</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
<td></td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>None.</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 4</strong></td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>None.</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td></td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>None.</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>None.</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>None.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

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

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

Individual protection measures:

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

Date of issue: 09/29/2021
Section 8. Exposure controls/personal protection

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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

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

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

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

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.

Color: 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.

Odor: 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.

Odor threshold: SureSelect Hyb 1 Not available.
SureSelect Hyb 2 Not available.
SureSelect Hyb 4 Not available.
SureSelect Binding Buffer Not available.
SureSelect Wash Buffer 1 Not available.
SureSelect Wash Buffer 2 Not available.

pH: 

Date of issue: 09/29/2021
Section 9. Physical and chemical properties and safety characteristics

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:

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Closed cup</th>
<th>Open cup</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>°C</td>
<td>°F</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edetic acid</td>
<td>&gt;100</td>
<td>&gt;212</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric acid, trisodium salt, dihydrate</td>
<td>&gt;100</td>
<td>&gt;212</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric acid, trisodium salt, dihydrate</td>
<td>&gt;100</td>
<td>&gt;212</td>
</tr>
</tbody>
</table>

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.

Vapor pressure:
## Section 9. Physical and chemical properties and safety characteristics

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapor Pressure at 20°C</th>
<th>Vapor Pressure at 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td>SureSelect Hyb 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propene-1,3-diol hydrochloride</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>≤0.0013501</td>
<td>≤0.00018</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>≤0.0013501</td>
<td>≤0.00018</td>
</tr>
</tbody>
</table>

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

**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.

Date of issue: 09/29/2021
### Section 9. Physical and chemical properties and safety characteristics

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.

#### Auto-ignition temperature

<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>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>310.5</td>
<td>590.9</td>
<td>VDI 2263</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

#### 10.1 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.

#### 10.2 Chemical stability
- **SureSelect Hyb 1**: The product is stable.
- **SureSelect Hyb 2**: The product is stable.
- **SureSelect Hyb 4**: The product is stable.
- **SureSelect Binding Buffer**: The product is stable.
- **SureSelect Wash Buffer 1**: The product is stable.
- **SureSelect Wash Buffer 2**: The product is stable.

#### 10.3 Possibility of hazardous reactions
- **SureSelect Hyb 1**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **SureSelect Hyb 2**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **SureSelect Hyb 4**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **SureSelect Binding Buffer**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **SureSelect Wash Buffer 1**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **SureSelect Wash Buffer 2**: Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid
- **SureSelect Hyb 1**: No specific data.
- **SureSelect Hyb 2**: No specific data.
- **SureSelect Hyb 4**: No specific data.
- **SureSelect Binding Buffer**: No specific data.
- **SureSelect Wash Buffer 1**: No specific data.
- **SureSelect Wash Buffer 2**: No specific data.

#### 10.5 Incompatible materials
- **SureSelect Hyb 1**: May react or be incompatible with oxidizing materials.
- **SureSelect Hyb 2**: May react or be incompatible with oxidizing materials.
- **SureSelect Hyb 4**: May react or be incompatible with oxidizing materials.
- **SureSelect Binding Buffer**: May react or be incompatible with oxidizing materials.
- **SureSelect Wash Buffer 1**: May react or be incompatible with oxidizing materials.
- **SureSelect Wash Buffer 2**: May react or be incompatible with oxidizing materials.
Section 10. Stability and reactivity

10.6 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

11.1 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>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;7940 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>8290 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Disodium dihydrogenorthophosphate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 mg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 mg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dihydrogenorthophosphate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>150 mg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 mg</td>
<td>-</td>
</tr>
</tbody>
</table>

Date of issue: 09/29/2021
Section 11. Toxicological information

### Sensitization
Not available.

### Mutagenicity
**Conclusion/Summary**: Not available.

### Carcinogenicity
**Conclusion/Summary**: Not available.

### Reproductive toxicity
**Conclusion/Summary**: Not available.

### Teratogenicity
**Conclusion/Summary**: Not available.

### Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eyes - Mild irritant</td>
<td></td>
<td>Rabbit</td>
<td>250 ug</td>
</tr>
<tr>
<td>Eyes - Moderate irritant</td>
<td></td>
<td>Rabbit</td>
<td>24 hours 100 mg</td>
</tr>
<tr>
<td>Eyes - Moderate irritant</td>
<td></td>
<td>Rabbit</td>
<td>10 mg</td>
</tr>
<tr>
<td>Skin - Mild irritant</td>
<td></td>
<td>Guinea pig</td>
<td>24 hours 25 mg</td>
</tr>
<tr>
<td>Skin - Moderate irritant</td>
<td></td>
<td>Mouse</td>
<td>24 hours 25 mg</td>
</tr>
<tr>
<td>Skin - Mild irritant</td>
<td></td>
<td>Rabbit</td>
<td>24 hours 50 mg</td>
</tr>
<tr>
<td>Skin - Moderate irritant</td>
<td></td>
<td>Rabbit</td>
<td>24 hours 25 mg</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eyes - Mild irritant</td>
<td></td>
<td>Rabbit</td>
<td>250 ug</td>
</tr>
<tr>
<td>Eyes - Moderate irritant</td>
<td></td>
<td>Rabbit</td>
<td>24 hours 100 mg</td>
</tr>
<tr>
<td>Eyes - Moderate irritant</td>
<td></td>
<td>Rabbit</td>
<td>10 mg</td>
</tr>
<tr>
<td>Skin - Mild irritant</td>
<td></td>
<td>Guinea pig</td>
<td>24 hours 25 mg</td>
</tr>
<tr>
<td>Skin - Moderate irritant</td>
<td></td>
<td>Mouse</td>
<td>24 hours 25 mg</td>
</tr>
<tr>
<td>Skin - Mild irritant</td>
<td></td>
<td>Rabbit</td>
<td>24 hours 50 mg</td>
</tr>
<tr>
<td>Skin - Moderate irritant</td>
<td></td>
<td>Rabbit</td>
<td>24 hours 25 mg</td>
</tr>
</tbody>
</table>

### Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>Category 3</td>
<td>-</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>Category 3</td>
<td>-</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

Date of issue: 09/29/2021
**Section 11. Toxicological information**

**Aspiration hazard**
Not available.

**Information on the likely routes of exposure**

<table>
<thead>
<tr>
<th>Product</th>
<th>Route of Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>Inhilation</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>Inhilation</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>Inhilation</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Inhilation</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Inhilation</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Inhilation</td>
</tr>
</tbody>
</table>

**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.

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

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

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

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

**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.

**Inhilation**
- 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.
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 and also chronic effects from short and long term exposure

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

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

Potential chronic health effects

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

Date of issue: 09/29/2021
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 (vapors) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 1</td>
<td>17142.9</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</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>Sodium dihydrogenorthophosphate</td>
<td>8290</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 2</strong></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>N/A</td>
<td>10.3</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><strong>SureSelect Hyb 4</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>1288</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>51369.9</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</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><strong>SureSelect Wash Buffer 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>1288</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>1288</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosus</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 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>Sodium dihydrogenorthophosphate</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>
<tr>
<td></td>
<td>Acute LC50 720 ppm Fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td>Chronic NOEC 25 mg/l</td>
<td>Daphnia</td>
<td>21 days</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosus</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 1000000 µg/l Fresh water</td>
<td>Fish - Morone saxatilis - Larvae</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Date of issue: 09/29/2021
### Section 12. Ecological information

<table>
<thead>
<tr>
<th>SureSelect Wash Buffer 1</th>
<th>Sodium dodecyl sulphate</th>
<th>Chronic LC10 781 mg/l Fresh water</th>
<th>Chronic NOEC 6 g/L Fresh water</th>
<th>Chronic NOEC 0.314 g/L Fresh water</th>
<th>Chronic NOEC 100 mg/l Fresh water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)</td>
<td>Aquatic plants - Lemna minor</td>
<td>Daphnia - Daphnia pulex</td>
<td>Fish - Gambusia holbrooki - Adult</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 weeks</td>
<td>96 hours</td>
<td>21 days</td>
<td>8 weeks</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SureSelect Wash Buffer 1</th>
<th>Sodium dodecyl sulphate</th>
<th>Acute EC50 1200 µg/l Marine water</th>
<th>Acute LC50 900 µg/l Marine water</th>
<th>Acute LC50 1400 µg/l Fresh water</th>
<th>Acute LC50 590 µg/l Fresh water</th>
<th>Chronic NOEC 1.25 mg/l Marine water</th>
<th>Chronic NOEC 3.2 mg/l Fresh water</th>
<th>Chronic NOEC &gt;1357 µg/l Fresh water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Algae - Skeletonema costatum</td>
<td>Crustaceans - Artemia salina - Adult</td>
<td>Daphnia - Daphnia pulex - Neonate</td>
<td>Fish - Cirrhinus mrigala - Larvae</td>
<td>Algae - Ulva fasciata - Zoa</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
<td>Daphnia - Daphnia magna - Neonate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 hours</td>
<td>48 hours</td>
<td>48 hours</td>
<td>96 hours</td>
<td>96 hours</td>
<td>21 days</td>
<td>21 days</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SureSelect Wash Buffer 2</th>
<th>Sodium dodecyl sulphate</th>
<th>Acute EC50 1200 µg/l Marine water</th>
<th>Acute LC50 900 µg/l Marine water</th>
<th>Acute LC50 1400 µg/l Fresh water</th>
<th>Acute LC50 590 µg/l Fresh water</th>
<th>Chronic NOEC 1.25 mg/l Marine water</th>
<th>Chronic NOEC 3.2 mg/l Fresh water</th>
<th>Chronic NOEC &gt;1357 µg/l Fresh water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Algae - Skeletonema costatum</td>
<td>Crustaceans - Artemia salina - Adult</td>
<td>Daphnia - Daphnia pulex - Neonate</td>
<td>Fish - Cirrhinus mrigala - Larvae</td>
<td>Algae - Ulva fasciata - Zoa</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
<td>Daphnia - Daphnia magna - Neonate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 hours</td>
<td>48 hours</td>
<td>48 hours</td>
<td>96 hours</td>
<td>96 hours</td>
<td>21 days</td>
<td>21 days</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>OECD 301B Ready Biodegradability - CO₂ Evolution Test</td>
<td>95 % - Readily - 28 days</td>
<td>20 mg/l</td>
<td>Activated sludge</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>OECD 301B Ready Biodegradability - CO₂ Evolution Test</td>
<td>95 % - Readily - 28 days</td>
<td>20 mg/l</td>
<td>Activated sludge</td>
</tr>
</tbody>
</table>

Date of issue: 09/29/2021
Section 12. Ecological information

<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 Disodium dihydrogen</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
<tr>
<td>ethylenediaminetetraacetate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1 Sodium dodecyl sulphate</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2 Sodium dodecyl sulphate</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

12.3 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 Disodium dihydrogen</td>
<td>-4.3</td>
<td>1.8</td>
<td>low</td>
</tr>
<tr>
<td>ethylenediaminetetraacetate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1 Sodium dodecyl sulphate</td>
<td>-2.03</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2 Sodium dodecyl sulphate</td>
<td>-2.03</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

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

12.5 Other adverse effects:

No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods:

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

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

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

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

Date of issue: 09/29/2021
Section 14. Transport information

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

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations

Clean Water Act (CWA) 311 : Edetic acid

Clean Air Act  Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : SureSelect Hyb 1  EYE IRRITATION - Category 2A
SureSelect Hyb 2  Not classified.
SureSelect Hyb 4  Not applicable.
SureSelect Binding Buffer  Not applicable.
SureSelect Wash Buffer 1  Not applicable.
SureSelect Wash Buffer 2  Not applicable.

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>≥10 - ≤25</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>≤3</td>
<td>EYE IRRITATION - Category 2B</td>
</tr>
<tr>
<td>Sodium dihydrogenorthophosphate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>≥10 - ≤25</td>
<td>ACUTE TOXICITY (oral) - Category 4</td>
</tr>
<tr>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
<td></td>
<td>ACUTE TOXICITY (inhalation) - Category 4</td>
</tr>
<tr>
<td>SureSelect Hyb 4</td>
<td>≤3</td>
<td>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td></td>
<td>ACUTE TOXICITY (oral) - Category 4</td>
</tr>
</tbody>
</table>

Date of issue : 09/29/2021
Section 15. Regulatory information

<table>
<thead>
<tr>
<th>SureSelect Binding Buffer</th>
<th>Sodium chloride</th>
<th>EYE IRRITATION - Category 2A</th>
</tr>
</thead>
</table>

**State regulations**

- **Massachusetts**: None of the components are listed.
- **New York**: None of the components are listed.
- **New Jersey**: None of the components are listed.
- **Pennsylvania**: None of the components are listed.
- **California Prop. 65**: This product does not require a Safe Harbor warning under California Prop. 65.

**International regulations**

- **Chemical Weapon Convention List Schedules I, II & III Chemicals**: Not listed.
- **Montreal Protocol**: Not listed.
- **Stockholm Convention on Persistent Organic Pollutants**: Not listed.
- **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**: Not determined.
  - **Japan inventory (CSCL)**: All components are listed or exempted.
  - **Japan inventory (ISHL)**: All components are listed or exempted.
- **New Zealand**: Not determined.
- **Philippines**: Not determined.
- **Republic of Korea**: Not determined.
- **Taiwan**: Not determined.
- **Thailand**: Not determined.
- **Turkey**: Not determined.
- **United States**: Not determined.
- **Viet Nam**: Not determined.

Section 16. Other information

**Procedure used to derive the classification**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 1</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>SureSelect Hyb 2</td>
<td>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</td>
</tr>
</tbody>
</table>

**Date of issue**: 09/29/2021
Section 16. Other information

History
- Date of issue: 09/29/2021
- Date of previous issue: 05/22/2019
- Version: 3

Key to abbreviations:
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- N/A = Not available
- UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.