SAFETY DATA SHEET
SSEL TE Kit, ILM Hyb Module, Box 1 (Post PCR) 16 Rxns, Part Number 5190-9685

Section 1. Identification

Product identifier: SSEL TE Kit, ILM Hyb Module, Box 1 (Post PCR) 16 Rxns, Part Number 5190-9685

Part no. (chemical kit): 5190-9685

Part no.: SureSelect Binding Buffer 5190-4399
SureSelect Wash Buffer 1 5190-4400
SureSelect Wash Buffer 2 5190-4401

Material uses: Analytical reagent.
For Research Use Only. Not for use in diagnostic procedures.

SureSelect Binding Buffer 13.2 ml
SureSelect Wash Buffer 1 8 ml
SureSelect Wash Buffer 2 24 ml

Supplier/Manufacturer: Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

Emergency telephone number (with hours of operation): CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture
Not classified.

GHS label elements

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

Response:
SureSelect Binding Buffer: Not applicable.
SureSelect Wash Buffer 1: Not applicable.
SureSelect Wash Buffer 2: Not applicable.

Storage:
SureSelect Binding Buffer: Not applicable.
SureSelect Wash Buffer 1: Not applicable.
SureSelect Wash Buffer 2: Not applicable.

Disposal:
SureSelect Binding Buffer: Not applicable.
SureSelect Wash Buffer 1: Not applicable.
SureSelect Wash Buffer 2: Not applicable.

Supplemental label elements:
SureSelect Binding Buffer: None known.
SureSelect Wash Buffer 1: None known.
SureSelect Wash Buffer 2: None known.

Date of issue/Date of revision: 12/17/2019
Date of previous issue: No previous validation
Version: 1
Section 2. Hazard identification

Other hazards which do not result in classification:

- SureSelect Binding Buffer: None known.
- SureSelect Wash Buffer 1: None known.
- SureSelect Wash Buffer 2: None known.

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer Sodium chloride</td>
<td>&lt;10</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1 Sodium dodecyl sulphate</td>
<td>≤0.3</td>
<td>151-21-3</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2 Sodium dodecyl sulphate</td>
<td>≤0.3</td>
<td>151-21-3</td>
</tr>
</tbody>
</table>

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

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

Section 4. First-aid measures

Eye contact:
- 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 Binding Buffer: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect Wash Buffer 1: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect Wash Buffer 2: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact:
- 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.
Section 4. First-aid measures

Ingestion

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

- **Inhalation**
  - **SureSelect Binding Buffer**: No specific data.
  - **SureSelect Wash Buffer 1**: No specific data.
  - **SureSelect Wash Buffer 2**: No specific data.

- **Skin contact**
  - **SureSelect Binding Buffer**: No specific data.
  - **SureSelect Wash Buffer 1**: No specific data.
  - **SureSelect Wash Buffer 2**: No specific data.

- **Ingestion**
  - **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**
Section 4. First-aid measures

### Notes to physician
- **SureSelect Binding Buffer**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **SureSelect Wash Buffer 1**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **SureSelect Wash Buffer 2**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### Specific treatments
- **SureSelect Binding Buffer**: No specific treatment.
- **SureSelect Wash Buffer 1**: No specific treatment.
- **SureSelect Wash Buffer 2**: No specific treatment.

### Protection of first-aiders
- **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

### Extinguishing media
- **Suitable extinguishing media**: 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**: None known.
  - **SureSelect Binding Buffer**: None known.
  - **SureSelect Wash Buffer 1**: None known.
  - **SureSelect Wash Buffer 2**: None known.

### Specific hazards arising from the chemical
- **SureSelect Binding Buffer**: In a fire or if heated, a pressure increase will occur and the container may burst.
- **SureSelect Wash Buffer 1**: In a fire or if heated, a pressure increase will occur and the container may burst.
- **SureSelect Wash Buffer 2**: In a fire or if heated, a pressure increase will occur and the container may burst.

### Hazardous thermal decomposition products
- **SureSelect 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.

### Special protective actions for fire-fighters
- **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.
Section 5. Fire-fighting measures

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

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

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

Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

- **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.

**For emergency responders**

- **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".

**Environmental precautions**

- **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).
## Section 6. Accidental release measures

### 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).

### 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.

### Methods and materials for containment and cleaning up

#### Methods for cleaning up:

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

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

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

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures:

- **SureSelect Binding Buffer**
  - Put on appropriate personal protective equipment (see Section 8).

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

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

#### Advice on general occupational hygiene:

- **SureSelect 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.
Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

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.

Section 8. Exposure controls/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.
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.

**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

**Appearance**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>SureSelect Binding Buffer</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>Liquid.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>Liquid.</td>
</tr>
</tbody>
</table>

**Color**

| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1  | Not available. |
| SureSelect Wash Buffer 2  | Not available. |

**Odor**

| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1  | Not available. |
| SureSelect Wash Buffer 2  | Not available. |

**Odor threshold**

| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1  | Not available. |
| SureSelect Wash Buffer 2  | Not available. |

**pH**

| SureSelect Binding Buffer | 7.5 |
| SureSelect Wash Buffer 1  | 7 |
| SureSelect Wash Buffer 2  | 7 |

**Melting point**

| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1  | 0°C (32°F) |
| SureSelect Wash Buffer 2  | 0°C (32°F) |

**Boiling point**

| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1  | 100°C (212°F) |
| SureSelect Wash Buffer 2  | 100°C (212°F) |

**Flash point**

| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1  | Not available. |
| SureSelect Wash Buffer 2  | Not available. |

**Evaporation rate**

| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1  | Not available. |
| SureSelect Wash Buffer 2  | Not available. |

**Flammability (solid, gas)**

| SureSelect Binding Buffer | Not applicable. |
| SureSelect Wash Buffer 1  | Not applicable. |
| SureSelect Wash Buffer 2  | Not applicable. |
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect Binding Buffer</th>
<th>SureSelect Wash Buffer 1</th>
<th>SureSelect Wash Buffer 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect Binding Buffer</th>
<th>SureSelect Wash Buffer 1</th>
<th>SureSelect Wash Buffer 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

Incompatible materials:
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2

Hazardous decomposition products:
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2

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 Binding Buffer Sodium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1 Sodium dodecyl sulphate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2 Sodium dodecyl sulphate</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 Binding Buffer Sodium chloride</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1 Sodium dodecyl sulphate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>250 ug</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 25 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Mouse</td>
<td>-</td>
<td>24 hours 25 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 50 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 25 mg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2 Sodium dodecyl sulphate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>250 ug</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 mg</td>
<td>-</td>
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<tr>
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<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 25 mg</td>
<td>-</td>
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Section 11. Toxicological information

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<thead>
<tr>
<th></th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sensitization</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Specific target organ toxicity (single exposure)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td><strong>Category</strong></td>
<td><strong>Route of exposure</strong></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Sodium dodecyl sulphate</td>
<td>Category 3</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Sodium dodecyl sulphate</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

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

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure**

<table>
<thead>
<tr>
<th><strong>Name</strong></th>
<th><strong>Route of exposure</strong></th>
<th><strong>Target organs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
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<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
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<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not available.</td>
<td></td>
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</table>

**Potential acute health effects**

<table>
<thead>
<tr>
<th><strong>Eye contact</strong></th>
<th><strong>Route of exposure</strong></th>
<th><strong>Target organs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>Inhalation</strong></th>
<th><strong>Route of exposure</strong></th>
<th><strong>Target organs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Skin contact</strong></th>
<th><strong>Route of exposure</strong></th>
<th><strong>Target organs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Ingestion</strong></th>
<th><strong>Route of exposure</strong></th>
<th><strong>Target organs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**
- SureSelect Binding Buffer: No specific data.
- SureSelect Wash Buffer 1: No specific data.
- SureSelect Wash Buffer 2: No specific data.

**Inhalation**
- SureSelect Binding Buffer: No specific data.
- SureSelect Wash Buffer 1: No specific data.
- SureSelect Wash Buffer 2: No specific data.

**Skin contact**
- SureSelect Binding Buffer: No specific data.
- SureSelect Wash Buffer 1: No specific data.
- SureSelect Wash Buffer 2: No specific data.

**Ingestion**
- 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 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 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 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 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 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.

**Fertility effects**
- 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**
### 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>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>SureSelect Wash Buffer 1</td>
<td>1288</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>1288</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Section 12. Ecological information

#### Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
<td>96 hours</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosa</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute IC50 6.87 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Acute LC50 1000000 μg/l Fresh water</td>
<td>Fish - Morone saxatilis - Larvae</td>
<td>96 hours</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</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>SureSelect Wash Buffer 2</td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>Chronic NOEC 0.314 g/L Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>21 days</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Fish - Gambusia holbrooki - Adult</td>
<td>8 weeks</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>Chronic NOEC &gt;1357 µg/l Marine water</td>
<td>Algae - Skeletonema costatum</td>
<td>42 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 3.2 mg/l Fresh water</td>
<td>Crustaceans - Artemia salina - Adult</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC &gt;1357 µg/l Marine water</td>
<td>Daphnia - Daphnia pulex - Neoneate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 900 µg/l Marine water</td>
<td>Fish - Cirrhinus mrigala - Larvae</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 590 µg/l Fresh water</td>
<td>Algae - Ulva fasciata - Zoa</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 1.25 mg/l Marine water</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 1 mg/l Marine water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>42 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC &gt;1357 µg/l Marine water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>42 days</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 590 µg/l Marine water</td>
<td>Algae - Skeletonema costatum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 900 µg/l Marine water</td>
<td>Crustaceans - Artemia salina - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1400 µg/l Marine water</td>
<td>Daphnia - Daphnia pulex - Neoneate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 590 µg/l Fresh water</td>
<td>Fish - Cirrhinus mrigala - Larvae</td>
<td>96 hours</td>
</tr>
</tbody>
</table>
Section 12. Ecological information

<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><strong>SureSelect Wash Buffer 1</strong>&lt;br&gt;Sodium dodecyl sulphate</td>
<td>-2.03</td>
<td></td>
<td>low</td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong>&lt;br&gt;Sodium dodecyl sulphate</td>
<td>-2.03</td>
<td></td>
<td>low</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

Not available.

**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>Algae - Ulva fasciata - Zoea ramosa - Neonate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daphnia magna - Neonate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish - Pimephales promelas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic NOEC 1.25 mg/l Marine water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic NOEC 1 mg/l Fresh water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic NOEC 3.2 mg/l Fresh water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic NOEC &gt;1357 µg/l Fresh water</td>
<td></td>
<td></td>
<td></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 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

**TDG / 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 Annex II of MARPOL and the IBC Code**

: Not available.
## Section 15. Regulatory information

### Canadian lists
- **Canadian NPRI**: None of the components are listed.
- **CEPA Toxic substances**: None of the components are listed.

### 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**: All components are listed or exempted.
- **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.
- **New Zealand**: All components are listed or exempted.
- **Philippines**: All components are listed or exempted.
- **Republic of Korea**: All components are listed or exempted.
- **Taiwan**: Not determined.
- **Thailand**: Not determined.
- **Turkey**: Not determined.
- **United States**: All components are listed or exempted.
- **Viet Nam**: All components are listed or exempted.

## Section 16. Other information

### History
- **Date of issue/Date of revision**: 12/17/2019
- **Date of previous issue**: No previous validation
- **Version**: 1

### Key to abbreviations
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- HPR = Hazardous Products Regulations
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
Section 16. Other information

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
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</tr>
</tbody>
</table>

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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