Section 1. Identification

1.1 Product identifier
Product name: SureSelect XT Fast Target Enrichment Kit ILM Hyb Module Box 1
Part No. (Chemical Kit): 5190-8837, 5190-8840
Part No.: SureSelect Binding Buffer 5190-4399 / 5190-4407
SureSelect Wash Buffer 1 5190-4400 / 5190-4408
SureSelect Wash Buffer 2 5190-4401 / 5190-4409
Validation date: 9/24/2017

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses:
SureSelect Binding Buffer: Analytical reagent.
SureSelect Wash Buffer 1: 8 ml - 48 ml
SureSelect Wash Buffer 2: 24 ml - 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 Binding Buffer: 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.
SureSelect Wash Buffer 1: 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.
SureSelect Wash Buffer 2: 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
Not classified.

Ingredients of unknown toxicity:
SureSelect Binding Buffer: Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
Section 2. Hazards identification

2.2 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.

2.3 Other hazards

**Hazards not otherwise classified**
- 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 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 Binding Buffer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>&lt;10</td>
<td>7647-14-5</td>
</tr>
</tbody>
</table>

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 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

4.1 Description of necessary 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.

Date of issue: 09/24/2017
**Section 4. First aid measures**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>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.</td>
</tr>
</tbody>
</table>

**4.2 Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Contact Type</th>
<th>Substance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></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>
<tr>
<td><strong>Inhalation</strong></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>
<tr>
<td><strong>Skin contact</strong></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>

**Date of issue:** 09/24/2017
Section 4. First aid measures

### 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.

### 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.

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

#### 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.

### See toxicological information (Section 11)

Section 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media
- **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 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
### Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>SureSelect Binding Buffer</th>
<th>In a fire or if heated, a pressure increase will occur and the container may burst.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td></td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td></td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

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

**5.3 Advice for firefighters**

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
<th>SureSelect Binding Buffer</th>
<th>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td></td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td></td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

**Special protective equipment for fire-fighters**

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

### Section 6. Accidental release measures

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

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>SureSelect Binding Buffer</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td></td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td></td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
</tbody>
</table>

**Date of issue:** 09/24/2017
Section 6. Accidental release measures

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".

6.2 Environmental precautions

For emergency responders: 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

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

## 7.1 Precautions for safe handling

### Protective measures

<table>
<thead>
<tr>
<th>Material</th>
<th>Precaution</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>

### 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.

## 7.2 Conditions for safe storage, including any incompatibilities

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

- **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...
Section 7. Handling and storage

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)

Recommendations

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Industrial applications, Professional applications.</td>
</tr>
</tbody>
</table>

Industrial sector specific solutions

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

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>SureSelect Binding Buffer</td>
<td>None.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls

Environmental exposure controls

Individual protection measures

Hygiene measures

Eye/face protection

Skin protection

Hand protection

Body protection

Other skin protection

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## Section 8. Exposure controls/personal protection

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

## Section 9. Physical and chemical properties

### 9.1 Information on basic 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><strong>Physical state</strong></td>
<td>Liquid.</td>
<td>Liquid.</td>
<td>Liquid.</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>7.5</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not available.</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>Not available.</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Lower and upper explosive (flammable) limits</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

---

**Date of issue**: 09/24/2017
Section 9. Physical and chemical properties

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

**Partition coefficient: n-octanol/water**
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.

**Auto-ignition temperature**
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.

**Decomposition temperature**
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.

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

Section 10. Stability and reactivity

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

10.5 Incompatible 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 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 Binding Buffer Sodium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 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 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitization
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on the likely routes of exposure
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.

Potential acute health effects

Date of issue: 09/24/2017
## Section 11. Toxicological information

<table>
<thead>
<tr>
<th align="left"><strong>Eye contact</strong></th>
<th align="left">SureSelect Binding Buffer</th>
<th align="left">No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 1</td>
<td align="left">No known significant effects or critical hazards.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 2</td>
<td align="left">No known significant effects or critical hazards.</td>
</tr>
<tr>
<td align="left"><strong>Inhalation</strong></td>
<td align="left">SureSelect Binding Buffer</td>
<td align="left">No known significant effects or critical hazards.</td>
</tr>
<tr>
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<td align="left">SureSelect Wash Buffer 1</td>
<td align="left">No known significant effects or critical hazards.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 2</td>
<td align="left">No known significant effects or critical hazards.</td>
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<tr>
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<td align="left">No known significant effects or critical hazards.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 2</td>
<td align="left">No known significant effects or critical hazards.</td>
</tr>
<tr>
<td align="left"><strong>Ingestion</strong></td>
<td align="left">SureSelect Binding Buffer</td>
<td align="left">No known significant effects or critical hazards.</td>
</tr>
<tr>
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<td align="left">SureSelect Wash Buffer 1</td>
<td align="left">No known significant effects or critical hazards.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 2</td>
<td align="left">No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th align="left"><strong>Eye contact</strong></th>
<th align="left">SureSelect Binding Buffer</th>
<th align="left">No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 1</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 2</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"><strong>Inhalation</strong></td>
<td align="left">SureSelect Binding Buffer</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 1</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 2</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"><strong>Skin contact</strong></td>
<td align="left">SureSelect Binding Buffer</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 1</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 2</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"><strong>Ingestion</strong></td>
<td align="left">SureSelect Binding Buffer</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 1</td>
<td align="left">No specific data.</td>
</tr>
<tr>
<td align="left"></td>
<td align="left">SureSelect Wash Buffer 2</td>
<td align="left">No specific data.</td>
</tr>
</tbody>
</table>

### 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. |
Section 11. Toxicological information

Fertility effects:
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer Oral</td>
<td>51369.9 mg/kg</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>SureSelect Binding Buffer Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosa</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 402600 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna</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></td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.314 g/L Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Fish - Gambusia holbrooki - Adult</td>
<td>8 weeks</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

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

<table>
<thead>
<tr>
<th>Disposal methods</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The generation of waste should be avoided or minimized wherever possible.</td>
</tr>
<tr>
<td></td>
<td>Disposal of this product, solutions and any by-products should at all times</td>
</tr>
<tr>
<td></td>
<td>comply with the requirements of environmental protection and waste disposal</td>
</tr>
<tr>
<td></td>
<td>legislation and any regional local authority requirements. Dispose of surplus</td>
</tr>
<tr>
<td></td>
<td>and non-recyclable products via a licensed waste disposal contractor. Waste</td>
</tr>
<tr>
<td></td>
<td>should not be disposed of untreated to the sewer unless fully compliant with</td>
</tr>
<tr>
<td></td>
<td>the requirements of all authorities with jurisdiction. Waste packaging should</td>
</tr>
<tr>
<td></td>
<td>be recycled. Incineration or landfill should only be considered</td>
</tr>
</tbody>
</table>

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Section 13. Disposal considerations

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.

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.

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 Annex II of MARPOL and the IBC Code : 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 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 Binding Buffer : Not applicable.
SureSelect Wash Buffer 1 : Not applicable.
SureSelect Wash Buffer 2 : Not applicable.

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Section 15. Regulatory information

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>&lt;10</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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.

International regulations

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

Montreal Protocol (Annexes A, B, C, E)
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

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.
Malaysia : 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 : All components are listed or exempted.
Thailand : Not determined.
Turkey : Not determined.
United States : All components are listed or exempted.
Viet Nam : Not determined.
Section 16. Other information

History

Date of issue : 09/24/2017
Date of previous issue : 05/05/2015.
Version : 2

Indicates information that has changed from previously issued version.

Notice to reader

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