SAFETY DATA SHEET
SSEL TE Kit, ILM Hyb Module, Box 1 (Post PCR) 96 Rxns, Part Number 5190-9687

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Product name: SSEL TE Kit, ILM Hyb Module, Box 1 (Post PCR) 96 Rxns, Part Number 5190-9687
Part no. (chemical kit): 5190-9687
Part no.:
- SureSelect Binding Buffer 5190-9734
- SureSelect Wash Buffer 1 5190-4408
- SureSelect Wash Buffer 2 5190-4409

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Analytical reagent. For research use only.
Uses advised against: Not for use in diagnostic procedures.

1.3 Details of the supplier of the safety data sheet
Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000
e-mail address of person responsible for this SDS: pdl-msds_author@agilent.com

1.4 Emergency telephone number
Emergency telephone number (with hours of operation): CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Product definition:
- SureSelect Binding Buffer: Mixture
- SureSelect Wash Buffer 1: Mixture
- SureSelect Wash Buffer 2: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.

- SureSelect Binding Buffer: The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
- SureSelect Wash Buffer 1: The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
- SureSelect Wash Buffer 2: The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

See Section 16 for the full text of the H statements declared above. 
See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

<table>
<thead>
<tr>
<th>Signal word</th>
<th>SureSelect Binding Buffer</th>
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<tbody>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
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<td>SureSelect Wash Buffer 2</td>
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<table>
<thead>
<tr>
<th>Hazard statements</th>
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<th>No known significant effects or critical hazards.</th>
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<tbody>
<tr>
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<td>SureSelect Wash Buffer 1</td>
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<td>SureSelect Wash Buffer 2</td>
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#### Precautionary statements

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<thead>
<tr>
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<td></td>
<td>SureSelect Wash Buffer 2</td>
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<td></td>
<td>SureSelect Wash Buffer 2</td>
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<tbody>
<tr>
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</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
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</table>

<table>
<thead>
<tr>
<th>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</th>
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<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Special packaging requirements**
SECTION 2: Hazards identification

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:

SureSelect Binding Buffer
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SureSelect Wash Buffer 1
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SureSelect Wash Buffer 2
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

3.1 Substances:

SureSelect Binding Buffer: Mixture
SureSelect Wash Buffer 1: Mixture
SureSelect Wash Buffer 2: Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of 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. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SECTION 4: First aid measures

Ingestion:

- **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.

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.

4.2 Most important symptoms and effects, both 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.
SECTION 4: First aid measures

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

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

### Ingestion
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

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

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

SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
Use an extinguishing agent suitable for the surrounding fire.

#### Unsuitable extinguishing media
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
None known.

### 5.2 Special hazards arising from the substance or mixture

#### Hazards from the substance or mixture
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
In a fire or if heated, a pressure increase will occur and the container may burst.
SECTION 5: Firefighting measures

Hazardous combustion products

<table>
<thead>
<tr>
<th></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>No specific data.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No specific data.</td>
<td></td>
</tr>
</tbody>
</table>

5.3 Advice for firefighters

Special precautions for fire-fighters

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

Special protective equipment for fire-fighters

<table>
<thead>
<tr>
<th></th>
<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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</td>
<td></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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

<table>
<thead>
<tr>
<th></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 spill material. Put on appropriate personal protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 1</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 spill material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</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 spill material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 6: Accidental release measures

**For emergency responders**

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
</tbody>
</table>

6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
</tbody>
</table>

6.3 Methods and material for containment and cleaning up

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>

6.4 Reference to other sections

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Section 1 for emergency contact information.</td>
<td></td>
</tr>
<tr>
<td>See Section 8 for information on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>See Section 13 for additional waste treatment information.</td>
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</table>

SECTION 7: Handling and storage

7.1 Precautions for safe handling

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Description</th>
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</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>
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</table>
### SECTION 7: Handling and storage

#### Advice on general occupational hygiene

<table>
<thead>
<tr>
<th>Product</th>
<th>Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
</tbody>
</table>

#### 7.2 Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Product</th>
<th>Guidance</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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
</tbody>
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#### 7.3 Specific end use(s)

<table>
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<tr>
<th>Product</th>
<th>Recommendations</th>
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<td>SureSelect Binding Buffer</td>
<td>Industrial applications, Professional applications.</td>
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<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Industrial applications, Professional applications.</td>
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<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Industrial applications, Professional applications.</td>
</tr>
</tbody>
</table>
SECTION 7: Handling and storage

<table>
<thead>
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<th>Industrial sector specific solutions</th>
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<tr>
<td></td>
<td>SureSelect Wash Buffer</td>
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<td></td>
<td>2</td>
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</tbody>
</table>

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No exposure limit value known.

Biological exposure indices
None known.

Recommended monitoring procedures
Reference should be made to monitoring standards, such as the following:
European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy).
European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents).
European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents).
Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs
No DNELs/DMELs available.

PNECs
No PNECs available

8.2 Exposure controls

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

Individual protection measures

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

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

Skin protection

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

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

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

SECTION 8: Exposure controls/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.

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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state: SureSelect Binding Buffer Liquid.
SureSelect Wash Buffer 1 Liquid.
SureSelect Wash Buffer 2 Liquid.

Colour: SureSelect Binding Buffer Not available.
SureSelect Wash Buffer 1 Not available.
SureSelect Wash Buffer 2 Not available.

Odour: SureSelect Binding Buffer Not available.
SureSelect Wash Buffer 1 Not available.
SureSelect Wash Buffer 2 Not available.

Odour threshold: SureSelect Binding Buffer Not available.
SureSelect Wash Buffer 1 Not available.
SureSelect Wash Buffer 2 Not available.

Melting point/freezing point: SureSelect Binding Buffer Not available.
SureSelect Wash Buffer 1 0°C
SureSelect Wash Buffer 2 0°C

Initial boiling point and boiling range: SureSelect Binding Buffer Not available.
SureSelect Wash Buffer 1 100°C
SureSelect Wash Buffer 2 100°C

Flammability: 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>Upper/lower flammability or explosive limits</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</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>pH</td>
<td>7.5</td>
<td>7.5</td>
<td>7</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Media</td>
<td>Result</td>
<td></td>
</tr>
<tr>
<td></td>
<td>water</td>
<td>Soluble</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>Soluble</td>
<td></td>
</tr>
<tr>
<td></td>
<td>water</td>
<td>Soluble</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>Soluble</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td></td>
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SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapour Pressure at 20°C</th>
<th>Vapour pressure at 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>water</td>
<td>23.8</td>
<td>3.2</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>SureSelect Wash Buffer 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
</tbody>
</table>

Evaporation rate: Not available.

Relative density: Not available.

Vapour density: Not available.

Explosive properties: Not available.

Oxidising properties: Not available.

Particle characteristics:

Median particle size: Not applicable.
** SECTION 10: Stability and reactivity **

10.1 Reactivity: SureSelect Binding Buffer, SureSelect Wash Buffer 1, 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, SureSelect Wash Buffer 1, SureSelect Wash Buffer 2

The product is stable.

10.3 Possibility of hazardous reactions: SureSelect Binding Buffer, SureSelect Wash Buffer 1, SureSelect Wash Buffer 2

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: SureSelect Binding Buffer, SureSelect Wash Buffer 1, SureSelect Wash Buffer 2

No specific data.

10.5 Incompatible materials: SureSelect Binding Buffer, SureSelect Wash Buffer 1, SureSelect Wash Buffer 2

May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products: SureSelect Binding Buffer, SureSelect Wash Buffer 1, 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

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary: Not available.

Sensitiser

Conclusion/Summary: Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.
## SECTION 11: Toxicological information

### Conclusion/Summary : Not available.

### Reproductive toxicity

### Conclusion/Summary : Not available.

### Teratogenicity

### Conclusion/Summary : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on 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

#### 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. |

#### 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. |

#### 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. |

#### 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. |

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

#### Inhalation

| 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. |
### SECTION 11: Toxicological information

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

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

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<table>
<thead>
<tr>
<th>Exposure Type</th>
<th>Substance</th>
<th>Health Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Short term exposure</strong></td>
<td><strong>Potential immediate effects</strong></td>
<td><strong>Not available.</strong></td>
</tr>
<tr>
<td><strong>Potential delayed effects</strong></td>
<td><strong>Not available.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Long term exposure</strong></td>
<td><strong>Potential immediate effects</strong></td>
<td><strong>Not available.</strong></td>
</tr>
<tr>
<td><strong>Potential delayed effects</strong></td>
<td><strong>Not available.</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Potential chronic health effects

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Substance</th>
<th>Health Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

#### 11.2 Information on other hazards

##### 11.2.1 Endocrine disrupting properties
Not available.

##### 11.2.2 Other information
Not available.
SECTION 12: Ecological information

12.1 Toxicity
Conclusion/Summary : Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Soil/water partition coefficient (K\text{OC}) : Not available.
Mobility : Not available.

12.5 Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties
Not available.

12.7 Other adverse effects
No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging
Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information
SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number or ID number</td>
<td>Not regulated.</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

Additional information

14.6 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.

14.7 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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not listed.

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

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

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SECTION 15: Regulatory information

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

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

Not listed.

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

Not listed.

**Inventory list**

**Australia** : All components are listed or exempted.

**Canada** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Eurasian Economic Union**

**Japan** : Japan inventory (CSCL): All components are listed or exempted.

Russia 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** : All components are listed or exempted.

**Thailand** : Not determined.

**Turkey** : Not determined.

**United States** : All components are active or exempted.

**Viet Nam** : All components are listed or exempted.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

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

**Full text of abbreviated H statements**

Not applicable.

**Full text of classifications [CLP/GHS]**

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SECTION 16: Other information

Not applicable.

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Date of previous issue: No previous validation
Version: 1

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