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

1.1 Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Part no. (chemical kit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Pre-Capture Box 1 - 12 Reactions, Part Number 5190-7336</td>
<td>5190-7336</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5190-4088</td>
<td>SureSelect XT2 Binding Buffer</td>
</tr>
<tr>
<td>5190-4089</td>
<td>SureSelect XT2 Wash 1</td>
</tr>
<tr>
<td>5190-4090</td>
<td>SureSelect XT2 Wash 2</td>
</tr>
<tr>
<td>5190-4206</td>
<td>SureSelect XT2 Elution Buffer</td>
</tr>
<tr>
<td>5190-4207</td>
<td>SureSelect XT2 Neutralization Buffer</td>
</tr>
</tbody>
</table>

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

Material uses: Analytical reagent.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</td>
<td>9.6 ml</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 1</td>
<td>2.4 ml</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 2</td>
<td>14.4 ml</td>
</tr>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td>0.72 ml</td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>0.72 ml</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
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: Mixture

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</td>
<td>Mixture</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 1</td>
<td>Mixture</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 2</td>
<td>Mixture</td>
</tr>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td>Mixture</td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
SureSelect XT2 Pre-Capture Box 1 - 12 Reactions, Part Number 5190-7336

SECTION 2: Hazards identification

SureSelect XT2 Elution Buffer
H290
CORROSIVE TO METALS - Category 1

SureSelect XT2 Neutralization Buffer
H315
SKIN CORROSION/IRRITATION - Category 2
H319
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Ingredients of unknown toxicity:
- SureSelect XT2 Binding Buffer
- SureSelect XT2 Neutralization Buffer

Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10 - 30%

Ingredients of unknown ecotoxicity:
- SureSelect XT2 Neutralization Buffer

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 15.8%

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

Hazard pictograms:
- SureSelect XT2 Elution Buffer
- SureSelect XT2 Neutralization Buffer

Signal word:
- No signal word.
- Warning

Hazard statements:
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- No known significant effects or critical hazards.
- H290 - May be corrosive to metals.
- H319 - Causes serious eye irritation.
- H315 - Causes skin irritation.

Precautionary statements

Prevention:
- Not applicable.
- Not applicable.
- Not applicable.
- P234 - Keep only in original packaging.
- P280 - Wear protective gloves. Wear eye or face protection.

Date of issue/Date of revision: 06/03/2018
# SECTION 2: Hazards identification

**Response**

- **SureSelect XT2 Binding Buffer**
  - P264 - Wash hands thoroughly after handling.
- **SureSelect XT2 Wash 1**
  - Not applicable.
- **SureSelect XT2 Wash 2**
  - Not applicable.
- **SureSelect XT2 Elution Buffer**
  - Not applicable.
- **SureSelect XT2 Neutralization Buffer**
  - Not applicable.

**Storage**

- **SureSelect XT2 Binding Buffer**
  - Not applicable.
- **SureSelect XT2 Wash 1**
  - Not applicable.
- **SureSelect XT2 Wash 2**
  - Not applicable.
- **SureSelect XT2 Elution Buffer**
  - P406 - Store in corrosive resistant container with a resistant inner liner.
- **SureSelect XT2 Neutralization Buffer**
  - Not applicable.

**Disposal**

- **SureSelect XT2 Binding Buffer**
  - Not applicable.
- **SureSelect XT2 Wash 1**
  - Not applicable.
- **SureSelect XT2 Wash 2**
  - Not applicable.
- **SureSelect XT2 Elution Buffer**
  - Not applicable.
- **SureSelect XT2 Neutralization Buffer**
  - Not applicable.

**Hazardous ingredients**

- **SureSelect XT2 Binding Buffer**
  - Not applicable.
- **SureSelect XT2 Neutralization Buffer**
  - Not applicable.

**Supplemental label elements**

- **SureSelect XT2 Binding Buffer**
  - Safety data sheet available on request.
- **SureSelect XT2 Wash 1**
  - Not applicable.
- **SureSelect XT2 Wash 2**
  - Not applicable.
- **SureSelect XT2 Elution Buffer**
  - Not applicable.
- **SureSelect XT2 Neutralization Buffer**
  - Not applicable.

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

- **SureSelect XT2 Binding Buffer**
  - Not applicable.
- **SureSelect XT2 Wash 1**
  - Not applicable.
- **SureSelect XT2 Wash 2**
  - Not applicable.
- **SureSelect XT2 Elution Buffer**
  - Not applicable.
- **SureSelect XT2 Neutralization Buffer**
  - Not applicable.

**Special packaging requirements**

- **SureSelect XT2 Binding Buffer**
  - Not applicable.
- **SureSelect XT2 Wash 1**
  - Not applicable.
- **SureSelect XT2 Wash 2**
  - Not applicable.
- **SureSelect XT2 Elution Buffer**
  - Not applicable.
- **SureSelect XT2 Neutralization Buffer**
  - Not applicable.

**Tactile warning of danger**

- **SureSelect XT2 Binding Buffer**
  - Not applicable.
- **SureSelect XT2 Wash 1**
  - Not applicable.
- **SureSelect XT2 Wash 2**
  - Not applicable.
- **SureSelect XT2 Elution Buffer**
  - Not applicable.
- **SureSelect XT2 Neutralization Buffer**
  - Not applicable.

### 2.3 Other hazards
SECTION 2: Hazards identification

Other hazards which do not result in classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
</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.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</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>SureSelect XT2 Wash 1</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>SureSelect XT2 Wash 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>SureSelect XT2 Elution Buffer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

**Inhalation**
- **SureSelect XT2 Binding Buffer**
  - Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **SureSelect XT2 Wash 1**
  - Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **SureSelect XT2 Wash 2**
  - Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **SureSelect XT2 Elution Buffer**
  - Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- **SureSelect XT2 Neutralization Buffer**
  - Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**
- **SureSelect XT2 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 XT2 Wash 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 XT2 Wash 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.
- **SureSelect XT2 Elution 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 XT2 Neutralization 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.

Date of issue/Date of revision: 06/03/2018
SECTION 4: First aid measures

**SureSelect XT2 Wash 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.

**SureSelect XT2 Elution Buffer**
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**SureSelect XT2 Neutralization Buffer**
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders**

- **SureSelect XT2 Binding Buffer**: No action shall be taken involving any personal risk or without suitable training.
- **SureSelect XT2 Wash 1**: No action shall be taken involving any personal risk or without suitable training.
- **SureSelect XT2 Wash 2**: No action shall be taken involving any personal risk or without suitable training.
- **SureSelect XT2 Elution Buffer**: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- **SureSelect XT2 Neutralization Buffer**: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**

- **Eye contact**: No known significant effects or critical hazards.
- **SureSelect XT2 Binding Buffer**: No known significant effects or critical hazards.
- **SureSelect XT2 Wash 1**: No known significant effects or critical hazards.
- **SureSelect XT2 Wash 2**: No known significant effects or critical hazards.
- **SureSelect XT2 Elution Buffer**: No known significant effects or critical hazards.
- **SureSelect XT2 Neutralization Buffer**: Causes serious eye irritation.
SureSelect XT2 Pre-Capture Box 1 - 12 Reactions, Part Number 5190-7336

SECTION 4: First aid measures

Inhalation

- SureSelect XT2 Binding Buffer: No known significant effects or critical hazards.
- SureSelect XT2 Wash 1: No known significant effects or critical hazards.
- SureSelect XT2 Wash 2: No known significant effects or critical hazards.
- SureSelect XT2 Elution Buffer: No known significant effects or critical hazards.
- SureSelect XT2 Neutralization Buffer: No known significant effects or critical hazards.

Skin contact

- SureSelect XT2 Binding Buffer: No known significant effects or critical hazards.
- SureSelect XT2 Wash 1: No known significant effects or critical hazards.
- SureSelect XT2 Wash 2: No known significant effects or critical hazards.
- SureSelect XT2 Elution Buffer: No known significant effects or critical hazards.
- SureSelect XT2 Neutralization Buffer: Causes skin irritation.

Ingestion

- SureSelect XT2 Binding Buffer: No known significant effects or critical hazards.
- SureSelect XT2 Wash 1: No known significant effects or critical hazards.
- SureSelect XT2 Wash 2: No known significant effects or critical hazards.
- SureSelect XT2 Elution Buffer: No known significant effects or critical hazards.
- SureSelect XT2 Neutralization Buffer: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

- SureSelect XT2 Binding Buffer: No specific data.
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.
- SureSelect XT2 Elution Buffer: No specific data.
- SureSelect XT2 Neutralization Buffer: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

Inhalation

- SureSelect XT2 Binding Buffer: No specific data.
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.
- SureSelect XT2 Elution Buffer: No specific data.
- SureSelect XT2 Neutralization Buffer: No specific data.

Skin contact

- SureSelect XT2 Binding Buffer: No specific data.
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.
- SureSelect XT2 Elution Buffer: No specific data.
- SureSelect XT2 Neutralization Buffer: Adverse symptoms may include the following:
  - irritation
  - redness

Date of issue/Date of revision: 06/03/2018
SureSelect XT2 Pre-Capture Box 1 - 12 Reactions, Part Number 5190-7336

SECTION 4: First aid measures

Ingestion:
- SureSelect XT2 Binding Buffer: No specific data.
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.
- SureSelect XT2 Elution Buffer: No specific data.
- SureSelect XT2 Neutralization Buffer: No specific data.

Notes to physician:
- SureSelect XT2 Binding Buffer: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- SureSelect XT2 Wash 1: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- SureSelect XT2 Wash 2: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- SureSelect XT2 Elution Buffer: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- SureSelect XT2 Neutralization Buffer: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments:
- SureSelect XT2 Binding Buffer: No specific treatment.
- SureSelect XT2 Wash 1: No specific treatment.
- SureSelect XT2 Wash 2: No specific treatment.
- SureSelect XT2 Elution Buffer: No specific treatment.
- SureSelect XT2 Neutralization Buffer: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
- SureSelect XT2 Binding Buffer: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect XT2 Wash 1: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect XT2 Wash 2: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect XT2 Elution Buffer: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect XT2 Neutralization Buffer: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
- SureSelect XT2 Binding Buffer: None known.
- SureSelect XT2 Wash 1: None known.
- SureSelect XT2 Wash 2: None known.
- SureSelect XT2 Elution Buffer: None known.
- SureSelect XT2 Neutralization Buffer: None known.

5.2 Special hazards arising from the substance or mixture

Hazes from the substance or mixture:
- SureSelect XT2 Binding Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect XT2 Wash 1: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect XT2 Wash 2: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect XT2 Elution Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect XT2 Neutralization Buffer: In a fire or if heated, a pressure increase will occur and the

Date of issue/Date of revision: 06/03/2018
SECTION 5: Firefighting measures

### Hazardous combustion products

<table>
<thead>
<tr>
<th>Product</th>
<th>Decomposition products may include the following materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</td>
<td>halogenated compounds, metal oxide/oxides</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 2</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td></td>
</tr>
</tbody>
</table>

### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

<table>
<thead>
<tr>
<th>Product</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 XT2 Binding Buffer</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Wash 1</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Wash 2</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td></td>
</tr>
</tbody>
</table>

### Special protective equipment for fire-fighters

<table>
<thead>
<tr>
<th>Product</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 XT2 Binding Buffer</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Wash 1</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Wash 2</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td></td>
</tr>
</tbody>
</table>
**SECTION 5: Firefighting measures**

Conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Personal Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</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 spilt material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 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 spilt material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 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 spilt material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect XT2 Elution Buffer</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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
</tr>
</tbody>
</table>

**For emergency responders**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Personal Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 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 “For non-emergency personnel”.</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 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 “For non-emergency personnel”.</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 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 “For non-emergency personnel”.</td>
</tr>
<tr>
<td>SureSelect XT2 Elution 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 “For non-emergency personnel”.</td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization 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 “For non-emergency personnel”.</td>
</tr>
</tbody>
</table>
### SECTION 6: Accidental release measures

#### 6.2 Environmental precautions

- **SureSelect XT2 Binding Buffer**  
  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).

- **SureSelect XT2 Wash 1**  
  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).

- **SureSelect XT2 Wash 2**  
  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).

- **SureSelect XT2 Elution Buffer**  
  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).

- **SureSelect XT2 Neutralization Buffer**  
  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).

#### 6.3 Methods and material for containment and cleaning up

**Methods for cleaning up:**

- **SureSelect XT2 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 XT2 Wash 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 XT2 Wash 2**  
  Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

- **SureSelect XT2 Elution Buffer**  
  Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

- **SureSelect XT2 Neutralization 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.

#### 6.4 Reference to other sections

- See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.

**Date of issue/Date of revision:** 06/03/2018
## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Advice on general occupational hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</td>
<td>SureSelect XT2 Wash 1</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 1</td>
<td>SureSelect XT2 Wash 2</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 2</td>
<td>SureSelect XT2 Elution Buffer</td>
</tr>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td>SureSelect XT2 Neutralization Buffer</td>
</tr>
</tbody>
</table>

- **Protective measures**: Put on appropriate personal protective equipment (see Section 8).
- **Advice on general occupational hygiene**: 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**

Date of issue/Date of revision: 06/03/2018
**SECTION 7: Handling and storage**

<table>
<thead>
<tr>
<th>Storage</th>
<th>Sections</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</td>
<td></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 XT2 Wash 1</td>
<td></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 XT2 Wash 2</td>
<td></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 XT2 Elution Buffer</td>
<td></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. Store in corrosive resistant container with a resistant inner liner. Separate from acids. Keep away from metals. 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 XT2 Neutralization Buffer</td>
<td></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>
</table>

### 7.3 Specific end use(s)

**Recommendations**

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 1</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect XT2 Wash 2</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 06/03/2018
 SECTION 7: Handling and storage

Industrial sector specific solutions

- Neutralization Buffer

SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
SureSelect XT2 Elution Buffer
SureSelect XT2 Neutralization Buffer

Not applicable.

 SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

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

Individual protection measures

Hygiene measures

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

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

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

Date of issue/Date of revision

06/03/2018
SECTION 8: Exposure controls/personal protection

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.

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state: SureSelect XT2 Binding Buffer Liquid.
SureSelect XT2 Wash 1 Liquid.
SureSelect XT2 Wash 2 Liquid.
SureSelect XT2 Elution Buffer Liquid.
SureSelect XT2 Neutralization Buffer Liquid.

Colour: SureSelect XT2 Binding Buffer Not available.
SureSelect XT2 Wash 1 Not available.
SureSelect XT2 Wash 2 Not available.
SureSelect XT2 Elution Buffer Not available.
SureSelect XT2 Neutralization Buffer Not available.

Odour: SureSelect XT2 Binding Buffer Not available.
SureSelect XT2 Wash 1 Not available.
SureSelect XT2 Wash 2 Not available.
SureSelect XT2 Elution Buffer Not available.
SureSelect XT2 Neutralization Buffer Not available.

Odour threshold: SureSelect XT2 Binding Buffer Not available.
SureSelect XT2 Wash 1 Not available.
SureSelect XT2 Wash 2 Not available.
SureSelect XT2 Elution Buffer Not available.
SureSelect XT2 Neutralization Buffer Not available.

pH: SureSelect XT2 Binding Buffer 7.5
SureSelect XT2 Wash 1 7
SureSelect XT2 Wash 2 7
SureSelect XT2 Elution Buffer 12.2 to 13.4
SureSelect XT2 Neutralization Buffer 7.5
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect XT2 Binding Buffer</th>
<th>SureSelect XT2 Wash 1</th>
<th>SureSelect XT2 Wash 2</th>
<th>SureSelect XT2 Elution Buffer</th>
<th>SureSelect XT2 Neutralization Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
<td>0°C</td>
<td>0°C</td>
<td>0°C</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>SureSelect XT2</td>
<td>100°C</td>
<td>100°C</td>
<td>100°C</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>SureSelect XT2</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>SureSelect XT2</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>SureSelect XT2</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>SureSelect XT2</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>SureSelect XT2</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Product</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vapour density</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
## SECTION 9: Physical and chemical properties

**Explosive properties**
- SureSelect XT2 Binding Buffer: Not available.
- SureSelect XT2 Wash 1: Not available.
- SureSelect XT2 Wash 2: Not available.
- SureSelect XT2 Elution Buffer: Not available.
- SureSelect XT2 Neutralization Buffer: Not available.

**Oxidising properties**
- SureSelect XT2 Binding Buffer: Not available.
- SureSelect XT2 Wash 1: Not available.
- SureSelect XT2 Wash 2: Not available.
- SureSelect XT2 Elution Buffer: Not available.
- SureSelect XT2 Neutralization Buffer: Not available.

### 9.2 Other information
No additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity
- SureSelect XT2 Binding Buffer: No specific test data related to reactivity available for this product or its ingredients.
- SureSelect XT2 Wash 1: No specific test data related to reactivity available for this product or its ingredients.
- SureSelect XT2 Wash 2: No specific test data related to reactivity available for this product or its ingredients.
- SureSelect XT2 Elution Buffer: No specific test data related to reactivity available for this product or its ingredients.
- SureSelect XT2 Neutralization Buffer: No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability
- SureSelect XT2 Binding Buffer: The product is stable.
- SureSelect XT2 Wash 1: The product is stable.
- SureSelect XT2 Wash 2: The product is stable.
- SureSelect XT2 Elution Buffer: The product is stable.
- SureSelect XT2 Neutralization Buffer: The product is stable.

### 10.3 Possibility of hazardous reactions
- SureSelect XT2 Binding Buffer: Under normal conditions of storage and use, hazardous reactions will not occur.
- SureSelect XT2 Wash 1: Under normal conditions of storage and use, hazardous reactions will not occur.
- SureSelect XT2 Wash 2: Under normal conditions of storage and use, hazardous reactions will not occur.
- SureSelect XT2 Elution Buffer: Under normal conditions of storage and use, hazardous reactions will not occur.
- SureSelect XT2 Neutralization Buffer: Under normal conditions of storage and use, hazardous reactions will not occur.
**SECTION 10: Stability and reactivity**

### 10.4 Conditions to avoid

- **SureSelect XT2 Binding Buffer**
  - No specific data.
- **SureSelect XT2 Wash 1**
  - No specific data.
- **SureSelect XT2 Wash 2**
  - No specific data.
- **SureSelect XT2 Elution Buffer**
  - No specific data.
- **SureSelect XT2 Neutralization Buffer**
  - No specific data.

### 10.5 Incompatible materials

- **SureSelect XT2 Binding Buffer**
  - May react or be incompatible with oxidising materials.
- **SureSelect XT2 Wash 1**
  - May react or be incompatible with oxidising materials.
- **SureSelect XT2 Wash 2**
  - May react or be incompatible with oxidising materials.
- **SureSelect XT2 Elution Buffer**
  - Reactive or incompatible with the following materials:
    - acids
    - metals
- **SureSelect XT2 Neutralization Buffer**
  - May react or be incompatible with oxidising materials.

### 10.6 Hazardous decomposition products

- **SureSelect XT2 Binding Buffer**
  - Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **SureSelect XT2 Wash 1**
  - Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **SureSelect XT2 Wash 2**
  - Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **SureSelect XT2 Elution Buffer**
  - Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **SureSelect XT2 Neutralization Buffer**
  - 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><strong>SureSelect XT2 Binding Buffer</strong></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

**Acute toxicity estimates**

**Not available.**

#### 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><strong>SureSelect XT2 Binding Buffer</strong></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
<td></td>
<td>10 milligrams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sensitiser**

- **Conclusion/Summary**: Not available.

**Mutagenicity**

- **Conclusion/Summary**: Not available.

**Carcinogenicity**

- **Conclusion/Summary**: Not available.

**Date of issue/Date of revision**: 06/03/2018
**SECTION 11: Toxicological information**

**Conclusion/Summary**

- Reproductive toxicity: Not available.
- Teratogenicity: Not available.

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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

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

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure**

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>SureSelect XT2 Binding Buffer</th>
<th>SureSelect XT2 Wash 1</th>
<th>SureSelect XT2 Wash 2</th>
<th>SureSelect XT2 Elution Buffer</th>
<th>SureSelect XT2 Neutralization Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>
Neutralization Buffer

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

**Inhalation**
- SureSelect XT2 Binding Buffer: No specific data.
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.
- SureSelect XT2 Elution Buffer: No specific data.
- SureSelect XT2 Neutralization Buffer: No specific data.

**Ingestion**
- SureSelect XT2 Binding Buffer: No specific data.
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.
- SureSelect XT2 Elution Buffer: No specific data.
- SureSelect XT2 Neutralization Buffer: No specific data.

**Skin contact**
- SureSelect XT2 Binding Buffer: No specific data.
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.
- SureSelect XT2 Elution Buffer: No specific data.
- SureSelect XT2 Neutralization Buffer: Adverse symptoms may include the following:
  - irritation
  - redness

**Eye contact**
- SureSelect XT2 Binding Buffer: No specific data.
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.
- SureSelect XT2 Elution Buffer: No specific data.
- SureSelect XT2 Neutralization Buffer: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

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

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

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

**Potential chronic health effects**
### SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Category</th>
<th>Component</th>
<th>Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Developmental effects</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Fertility effects</strong></td>
<td>SureSelect XT2 Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Wash 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Elution Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

#### 12.1 Toxicity
SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 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 EC50 402600 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 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

<table>
<thead>
<tr>
<th>Soil/water partition coefficient (K&lt;sub&gt;OC&lt;/sub&gt;)</th>
<th>Mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

12.5 Results of PBT and vPvB assessment

| PBT | Not applicable. |
| vPvB | Not applicable. |

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

<table>
<thead>
<tr>
<th>Product</th>
<th>Methods of disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous waste</th>
<th>The classification of the product may meet the criteria for a hazardous waste.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Methods of disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>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.</td>
</tr>
</tbody>
</table>

| Special precautions | This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |

Date of issue/Date of revision : 06/03/2018
SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

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 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

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

Annex XIV - List of substances subject to authorisation

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

SureSelect XT2 Binding Buffer : Not applicable.
SureSelect XT2 Wash 1 : Not applicable.
SureSelect XT2 Wash 2 : Not applicable.
SureSelect XT2 Elution Buffer : Not applicable.
SureSelect XT2 Neutralization Buffer : Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

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.

Date of issue/Date of revision : 06/03/2018
SureSelect XT2 Pre-Capture Box 1 - 12 Reactions, Part Number 5190-7336

SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Region</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
<td>Japan inventory (ENCS): All components are listed or exempted.</td>
</tr>
<tr>
<td></td>
<td>Japan inventory (ISHL): All components are listed or exempted.</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Philippines</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Taiwan</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Thailand</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Turkey</td>
<td>Not determined.</td>
</tr>
<tr>
<td>United States</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

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]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Met. Corr. 1, H290</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td></td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

- SureSelect XT2 Binding Buffer
  - H319: Causes serious eye irritation.

- SureSelect XT2 Elution Buffer
  - H290: May be corrosive to metals.

- SureSelect XT2 Neutralization Buffer
  - H315: Causes skin irritation.
  - H319: Causes serious eye irritation.
  - H335: May cause respiratory irritation.

Full text of classifications [CLP/GHS]

Date of issue/Date of revision: 06/03/2018
### SECTION 16: Other information

<table>
<thead>
<tr>
<th>SureSelect XT2 Binding Buffer</th>
<th>Eye Irrit. 2, H319</th>
<th>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Elution Buffer</td>
<td>Met. Corr. 1, H290</td>
<td>CORROSIVE TO METALS - Category 1</td>
</tr>
<tr>
<td>SureSelect XT2 Neutralization Buffer</td>
<td>Eye Irrit. 2, H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315</td>
<td>SKIN CORROSION/IRRITATION - Category 2</td>
</tr>
<tr>
<td></td>
<td>STOT SE 3, H335</td>
<td>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3</td>
</tr>
</tbody>
</table>

**Notice to reader**

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