SAFETY DATA SHEET
SureSelect XT2 Hybridization Binding and Wash Buffer, Part Number 5190-7350

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

1.1 Product identifier
Product name: SureSelect XT2 Hybridization Binding and Wash Buffer, Part Number 5190-7350
Part no. (chemical kit): 5190-7350
Part no.: SureSelect XT2 Binding Buffer 5190-4088
SureSelect XT2 Wash 1 5190-4089
SureSelect XT2 Wash 2 5190-4090

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses: Analytical reagent.
SureSelect XT2 Binding Buffer 2 x 9.6 ml
SureSelect XT2 Wash 1 2 x 2.4 ml
SureSelect XT2 Wash 2 3 x 14.4 ml

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
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1 Mixture
SureSelect XT2 Wash 2 Mixture

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

Ingredients of unknown toxicity: SureSelect XT2 Binding Buffer
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

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

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<table>
<thead>
<tr>
<th><strong>SECTION 2: Hazards identification</strong></th>
<th></th>
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<td></td>
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<td><strong>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</strong></td>
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<td><strong>Special packaging requirements</strong></td>
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<tr>
<td></td>
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</table>

### 2.3 Other hazards

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

- **SureSelect XT2 Binding Buffer** This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- **SureSelect XT2 Wash 1** This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- **SureSelect XT2 Wash 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 XT2 Binding Buffer** None known.
- **SureSelect XT2 Wash 1** None known.
- **SureSelect XT2 Wash 2** None known.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

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<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
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<td>EC: 231-598-3</td>
<td>&lt;10</td>
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<td>SureSelect XT2 Wash 2</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### 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**

- **SureSelect XT2 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 XT2 Wash 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 XT2 Wash 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 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.

**Skin contact**

- **SureSelect XT2 Binding Buffer**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **SureSelect XT2 Wash 1**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **SureSelect XT2 Wash 2**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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SECTION 4: First aid measures

Ingestion : 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.

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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye 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.

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.

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.

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.

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.

Inhalation : SureSelect XT2 Binding Buffer
No specific data.

SureSelect XT2 Wash 1 : No specific data.

SureSelect XT2 Wash 2 : 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.

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SECTION 4: First aid measures

**Ingestion**

- SureSelect XT2 Binding Buffer
- SureSelect XT2 Wash 1
- SureSelect XT2 Wash 2

**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.

**Specific treatments**

- SureSelect XT2 Binding Buffer: No specific treatment.
- SureSelect XT2 Wash 1: No specific treatment.
- SureSelect XT2 Wash 2: No specific treatment.

SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media**

- SureSelect XT2 Binding Buffer
- SureSelect XT2 Wash 1
- SureSelect XT2 Wash 2

**Unsuitable extinguishing media**

- None known.

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

**Hazards from the substance or mixture**

- SureSelect XT2 Binding Buffer
- SureSelect XT2 Wash 1
- SureSelect XT2 Wash 2

**Hazardous combustion products**

- Decomposition products may include the following materials:
  - halogenated compounds
  - metal oxide/oxides
- SureSelect XT2 Wash 1: No specific data.
- SureSelect XT2 Wash 2: No specific data.

**5.3 Advice for firefighters**

**Special precautions for fire-fighters**

- 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.

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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

- **SureSelect XT2 Binding Buffer**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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.

- **SureSelect XT2 Wash 1**
  - 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.

- **SureSelect XT2 Wash 2**
  - 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel:
  - **SureSelect XT2 Binding Buffer**
    - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
  - **SureSelect XT2 Wash 1**
    - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
  - **SureSelect XT2 Wash 2**
    - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

- For emergency responders:
  - **SureSelect XT2 Binding Buffer**
    - 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".
  - **SureSelect XT2 Wash 1**
    - 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".
  - **SureSelect XT2 Wash 2**
    - 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".

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.
SECTION 6: Accidental release measures

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.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

**Protective measures**: Put on appropriate personal protective equipment (see Section 8).
- **SureSelect XT2 Binding Buffer**
- **SureSelect XT2 Wash 1**
- **SureSelect XT2 Wash 2**

**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.
- **SureSelect XT2 Binding Buffer**
- **SureSelect XT2 Wash 1**
- **SureSelect XT2 Wash 2**

7.2 Conditions for safe storage, including any incompatibilities

**Storage**: 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.
- **SureSelect XT2 Binding Buffer**

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SECTION 7: Handling and storage

appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect XT2 Wash 1
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect XT2 Wash 2
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations:
- SureSelect XT2 Binding Buffer: Industrial applications, Professional applications.
- SureSelect XT2 Wash 1: Industrial applications, Professional applications.
- SureSelect XT2 Wash 2: Industrial applications, Professional applications.

Industrial sector specific solutions:
- SureSelect XT2 Binding Buffer: Not applicable.
- SureSelect XT2 Wash 1: Not applicable.
- SureSelect XT2 Wash 2: 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

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## SECTION 8: Exposure controls/personal protection

### Hand protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Refer to the employer’s respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to protect the eyes. In addition to protective eyewear, safety glasses with side-shields should be worn, unless the assessment indicates a higher degree of protection.

### Skin 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.

### 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.

### 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.

### 8.2 Exposure controls

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

### PNECs

No PNECs available

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<th>Product/ingredient name</th>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
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## SECTION 8: Exposure controls/personal protection

**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

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<th>Property</th>
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<th>SureSelect XT2 Wash 2</th>
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<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>Not available.</td>
<td>100°C</td>
<td>100°C</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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**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>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

9.2 Other information

No additional information.

**SECTION 10: Stability and reactivity**

10.1 Reactivity

<table>
<thead>
<tr>
<th>SureSelect XT2 Binding Buffer</th>
<th>SureSelect XT2 Wash 1</th>
<th>SureSelect XT2 Wash 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
</tbody>
</table>

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SECTION 10: Stability and reactivity

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.

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.

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.

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.

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>3000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</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>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitiser

Conclusion/Summary: Not available.

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SECTION 11: Toxicological information

Mutagenicity
Conclusion/Summary: Not available.

Carcinogenicity
Conclusion/Summary: Not available.

Reproductive toxicity
Conclusion/Summary: Not available.

Teratogenicity
Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure

Inhalation
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
Not available.

Ingestion
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
No known significant effects or critical hazards.

Skin contact
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
No known significant effects or critical hazards.

Eye contact
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
No specific data.

Ingestion
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
No specific data.

Skin contact
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
No specific data.

Eye contact
SureSelect XT2 Binding Buffer
SureSelect XT2 Wash 1
SureSelect XT2 Wash 2
No specific data.

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

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SECTION 11: Toxicological information

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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

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

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

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

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

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

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer</td>
<td>Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosa</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 402.6 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute IC50 6.87 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 1000000 µg/l Fresh water</td>
<td>Fish - Morone saxatilis - Larvae</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic LC10 781 mg/l Fresh water</td>
<td>Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 0.314 g/L Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Fish - Gambusia holbrooki - Adult</td>
</tr>
</tbody>
</table>
SECTION 12: Ecological information

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
- Soil/water partition coefficient ($K_{OC}$): 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 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

<table>
<thead>
<tr>
<th></th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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SECTION 14: Transport information

14.5 Environmental hazards

<table>
<thead>
<tr>
<th>No.</th>
<th>No.</th>
<th>No.</th>
</tr>
</thead>
</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 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

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

SureSelect XT2 Binding Buffer Not applicable.
SureSelect XT2 Wash 1 Not applicable.
SureSelect XT2 Wash 2 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.
SureSelect XT2 Hybridization Binding and Wash Buffer, Part Number 5190-7350

SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>China</td>
<td>All components are listed or exempted.</td>
</tr>
<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. Japan inventory (ISHL): All components are listed or exempted.</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

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 = EU Hazard Communication System
- 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>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified</td>
<td></td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer H319</td>
<td>Causes serious eye irritation.</td>
<td></td>
</tr>
</tbody>
</table>

Full text of classifications [CLP/GHS]

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Binding Buffer Eye Irrit. 2, H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
<td></td>
</tr>
</tbody>
</table>

Date of issue/ Date of revision : 23/05/2019

Date of previous issue : 22/03/2017

Version : 2

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