

# SAFETY DATA SHEET

SureSelect XT2 Target Enrichment Kit Box 1, Part Number 5190-7303

## Section 1. Identification

### 1.1 Product identifier

**Product name** : SureSelect XT2 Target Enrichment Kit Box 1, Part Number 5190-7303

**Part No. (Chemical Kit)** : 5190-7303

**Part No.** : SureSelect XT2 Binding Buffer 5190-4088  
 SureSelect XT2 Wash 1 5190-4089  
 SureSelect XT2 Wash 2 5190-4090

**Validation date** : 1/3/2018

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

**Material uses** : Analytical reagent.

|                               |         |
|-------------------------------|---------|
| SureSelect XT2 Binding Buffer | 9.6 ml  |
| SureSelect XT2 Wash 1         | 2.4 ml  |
| SureSelect XT2 Wash 2         | 14.4 ml |

### 1.3 Details of the supplier of the safety data sheet

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

### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

|                        |   |  |
|------------------------|---|--|
| <b>OSHA/HCS status</b> | SureSelect XT2 Binding Buffer<br><br>SureSelect XT2 Wash 1<br><br>SureSelect XT2 Wash 2 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.<br><br>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.<br><br>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
|------------------------|---|--|

### Classification of the substance or mixture

Not classified.

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

## Section 2. Hazards identification

### 2.2 GHS label elements

|                                    |   |   |
|------------------------------------|---|---|
| <b>Signal word</b>                 | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2                                     | No signal word.<br>No signal word.<br>No signal word.   |
| <b>Hazard statements</b>           | : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Precautionary statements</b>    |   |   |
| <b>Prevention</b>                  | : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Response</b>                    | : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Storage</b>                     | : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Disposal</b>                    | : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Supplemental label elements</b> | : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | None known.<br>None known.<br>None known.   |

### 2.3 Other hazards

|   |   |   |
|---|---|---|
| <b>Hazards not otherwise classified</b> | : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | None known.<br>None known.<br>None known. |
|---|---|---|

## Section 3. Composition/information on ingredients

|                          |   |                               |
|--------------------------|---|-------------------------------|
| <b>Substance/mixture</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Mixture<br>Mixture<br>Mixture |
|--------------------------|---|-------------------------------|

| Ingredient name  | %   | CAS number |
|--|-----|------------|
| <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer<br>Sodium chloride | <10 | 7647-14-5  |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

|                    |  |  |
|--------------------|--|--|
| <b>Eye contact</b> | : SureSelect XT2 Binding Buffer<br><br>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.<br>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. |
|--------------------|--|--|

## Section 4. First aid measures

|                     |                                 |   |
|---------------------|---------------------------------|---|
|                     | 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.   |
| <b>Inhalation</b>   | : 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.   |
| <b>Skin contact</b> | : 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.  |
| <b>Ingestion</b>    | : 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. |

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

#### Potential acute health effects

|                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

## Section 4. First aid measures

|                  |   |   |
|------------------|---|---|
| <b>Ingestion</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
|------------------|---|---|

### Over-exposure signs/symptoms

|                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No specific data.<br>No specific data.<br>No specific data. |
| <b>Inhalation</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No specific data.<br>No specific data.<br>No specific data. |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No specific data.<br>No specific data.<br>No specific data. |
| <b>Ingestion</b>    | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No specific data.<br>No specific data.<br>No specific data. |

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

|                                   |   |   |
|-----------------------------------|---|---|
| <b>Notes to physician</b>         | : SureSelect XT2 Binding Buffer<br><br>SureSelect XT2 Wash 1<br><br>SureSelect XT2 Wash 2 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.<br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.<br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b>        | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2         | No specific treatment.<br>No specific treatment.<br>No specific treatment.  |
| <b>Protection of first-aiders</b> | : SureSelect XT2 Binding Buffer<br><br>SureSelect XT2 Wash 1<br><br>SureSelect XT2 Wash 2 | No action shall be taken involving any personal risk or without suitable training.<br>No action shall be taken involving any personal risk or without suitable training.<br>No action shall be taken involving any personal risk or without suitable training.  |

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

|                                       |   |   |
|---------------------------------------|---|---|
| <b>Suitable extinguishing media</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Use an extinguishing agent suitable for the surrounding fire.<br>Use an extinguishing agent suitable for the surrounding fire.<br>Use an extinguishing agent suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | None known.<br>None known.<br>None known.   |

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

## Section 5. Fire-fighting measures

|   |                                 |   |
|---|---------------------------------|---|
| <b>Specific hazards arising from the chemical</b>     | : 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.   |
| <b>Hazardous thermal decomposition products</b>       | : SureSelect XT2 Binding Buffer | Decomposition products may include the following materials:<br>halogenated compounds<br>metal oxide/oxides  |
|   | SureSelect XT2 Wash 1           | No specific data.   |
|   | SureSelect XT2 Wash 2           | No specific data.   |
| <b>5.3 Advice for firefighters</b>                    |                                 |   |
| <b>Special protective actions for fire-fighters</b>   | : SureSelect XT2 Binding Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
|   | SureSelect XT2 Wash 1           | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
|   | SureSelect XT2 Wash 2           | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| <b>Special protective equipment for fire-fighters</b> | : 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.                         |
|   | 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.                         |
|   | 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.                         |

## Section 6. Accidental release measures

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

|                                    |                                 |   |
|------------------------------------|---------------------------------|---|
| <b>For non-emergency personnel</b> | : 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 spilled 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 spilled 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   |

## Section 6. Accidental release measures

|   |  |
|---|--|
| <p><b>For emergency responders</b> : SureSelect XT2 Binding Buffer</p>      | <p>unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>   |
| <p>SureSelect XT2 Wash 1</p>  | <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>   |
| <p>SureSelect XT2 Wash 2</p>  | <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>   |
| <p><b>6.2 Environmental precautions</b> : SureSelect XT2 Binding Buffer</p> | <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>   |
| <p>SureSelect XT2 Wash 1</p>  | <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>   |
| <p>SureSelect XT2 Wash 2</p>  | <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>   |
| <p><b>6.3 Methods and materials for containment and cleaning up</b></p>     |  |
| <p><b>Methods for cleaning up</b> : SureSelect XT2 Binding Buffer</p>       | <p>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.</p> |
| <p>SureSelect XT2 Wash 1</p>  | <p>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.</p> |
| <p>SureSelect XT2 Wash 2</p>  | <p>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.</p> |



## Section 7. Handling and storage

### 7.1 Precautions for safe handling

|   |                                 |   |
|---|---------------------------------|---|
| <b>Protective measures</b>                    | : SureSelect XT2 Binding Buffer | Put on appropriate personal protective equipment (see Section 8).   |
|   | SureSelect XT2 Wash 1           | Put on appropriate personal protective equipment (see Section 8).   |
|   | SureSelect XT2 Wash 2           | Put on appropriate personal protective equipment (see Section 8).   |
| <b>Advice on general occupational hygiene</b> | : SureSelect XT2 Binding Buffer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
|   | SureSelect XT2 Wash 1           | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
|   | SureSelect XT2 Wash 2           | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

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

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

## Section 7. Handling and storage

opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

|   |   |   |
|---|---|---|
| <b>Recommendations</b>                      | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Industrial applications, Professional applications.<br>Industrial applications, Professional applications.<br>Industrial applications, Professional applications. |
| <b>Industrial sector specific solutions</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not applicable.<br>Not applicable.<br>Not applicable.   |

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

| Ingredient name                                  | Exposure limits |
|--|-----------------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | None.           |

### 8.2 Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.   |
| <b>Environmental exposure controls</b>  | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

### Individual protection measures

|                              |   |
|------------------------------|---|
| <b>Hygiene measures</b>      | : 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. |
| <b>Eye/face protection</b>   | : 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.                                 |
| <b>Skin protection</b>       |   |
| <b>Hand protection</b>       | : 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.   |
| <b>Body protection</b>       | : 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.   |
| <b>Other skin protection</b> | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.   |



## Section 8. Exposure controls/personal protection

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

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|   |   |   |
|---|---|---|
| <b>Physical state</b>                               | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Liquid.<br>Liquid.<br>Liquid.                         |
| <b>Color</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |
| <b>Odor</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |
| <b>Odor threshold</b>                               | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |
| <b>pH</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | 7.5<br>7<br>7   |
| <b>Melting point</b>                                | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>0°C (32°F)<br>0°C (32°F)            |
| <b>Boiling point</b>                                | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>100°C (212°F)<br>100°C (212°F)      |
| <b>Flash point</b>                                  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |
| <b>Evaporation rate</b>                             | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |
| <b>Flammability (solid, gas)</b>                    | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not applicable.<br>Not applicable.<br>Not applicable. |
| <b>Lower and upper explosive (flammable) limits</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |
| <b>Vapor pressure</b>                               | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |
| <b>Vapor density</b>                                | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |
| <b>Relative density</b>                             | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | Not available.<br>Not available.<br>Not available.    |

## Section 9. Physical and chemical properties

|   |                                 |  |
|---|---------------------------------|--|
| <b>Solubility</b>                             | : SureSelect XT2 Binding Buffer | Easily soluble in the following materials: cold water and hot water. |
|   | SureSelect XT2 Wash 1           | Easily soluble in the following materials: cold water and hot water. |
|   | SureSelect XT2 Wash 2           | Easily soluble in the following materials: cold water and hot water. |
| <b>Partition coefficient: n-octanol/water</b> | : SureSelect XT2 Binding Buffer | Not available.   |
|   | SureSelect XT2 Wash 1           | Not available.   |
|   | SureSelect XT2 Wash 2           | Not available.   |
| <b>Auto-ignition temperature</b>              | : SureSelect XT2 Binding Buffer | Not available.   |
|   | SureSelect XT2 Wash 1           | Not available.   |
|   | SureSelect XT2 Wash 2           | Not available.   |
| <b>Decomposition temperature</b>              | : SureSelect XT2 Binding Buffer | Not available.   |
|   | SureSelect XT2 Wash 1           | Not available.   |
|   | SureSelect XT2 Wash 2           | Not available.   |
| <b>Viscosity</b>                              | : SureSelect XT2 Binding Buffer | Not available.   |
|   | SureSelect XT2 Wash 1           | Not available.   |
|   | SureSelect XT2 Wash 2           | Not available.   |

## Section 10. Stability and reactivity

|  |                                 |  |
|--|---------------------------------|--|
| <b>10.1 Reactivity</b>                         | : 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. |
| <b>10.2 Chemical stability</b>                 | : SureSelect XT2 Binding Buffer | The product is stable.   |
|  | SureSelect XT2 Wash 1           | The product is stable.   |
|  | SureSelect XT2 Wash 2           | The product is stable.   |
| <b>10.3 Possibility of hazardous reactions</b> | : 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.            |
| <b>10.4 Conditions to avoid</b>                | : SureSelect XT2 Binding Buffer | No specific data.  |
|  | SureSelect XT2 Wash 1           | No specific data.  |
|  | SureSelect XT2 Wash 2           | No specific data.  |
| <b>10.5 Incompatible materials</b>             | : SureSelect XT2 Binding Buffer | May react or be incompatible with oxidizing materials.                                     |
|  | SureSelect XT2 Wash 1           | May react or be incompatible with oxidizing materials.                                     |
|  | SureSelect XT2 Wash 2           | May react or be incompatible with oxidizing materials.                                     |

## Section 10. Stability and reactivity

|  |                                 |  |
|--|---------------------------------|--|
| <b>10.6 Hazardous decomposition products</b> | : 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

| Product/ingredient name                          | Result    | Species | Dose       | Exposure |
|--|-----------|---------|------------|----------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | LD50 Oral | Rat     | 3000 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name                          | Result                   | Species | Score | Exposure                | Observation |
|--|--------------------------|---------|-------|-------------------------|-------------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |
|  | Eyes - Moderate irritant | Rabbit  | -     | 10 milligrams           | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

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

Not available.

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

Not available.

#### Aspiration hazard

Not available.

|   |                                 |                |
|---|---------------------------------|----------------|
| <b>Information on the likely routes of exposure</b> | : SureSelect XT2 Binding Buffer | Not available. |
|   | SureSelect XT2 Wash 1           | Not available. |
|   | SureSelect XT2 Wash 2           | Not available. |

## Section 11. Toxicological information

### Potential acute health effects

|                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

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

|                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No specific data.<br>No specific data.<br>No specific data. |
| <b>Inhalation</b>   | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No specific data.<br>No specific data.<br>No specific data. |
| <b>Skin contact</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No specific data.<br>No specific data.<br>No specific data. |
| <b>Ingestion</b>    | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No specific data.<br>No specific data.<br>No specific data. |

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

### Potential chronic health effects

|                              |   |   |
|------------------------------|---|---|
| <b>General</b>               | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Teratogenicity</b>        | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Developmental effects</b> | : SureSelect XT2 Binding Buffer<br>SureSelect XT2 Wash 1<br>SureSelect XT2 Wash 2 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

## Section 11. Toxicological information

|                          |                                 |   |
|--------------------------|---------------------------------|---|
| <b>Fertility effects</b> | : 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. |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                                 | ATE value     |
|---------------------------------------|---------------|
| SureSelect XT2 Binding Buffer<br>Oral | 51724.1 mg/kg |

## Section 12. Ecological information

### 12.1 Toxicity

| Product/ingredient name                          | Result                              | Species   | Exposure |
|--|-------------------------------------|---|----------|
| SureSelect XT2 Binding Buffer<br>Sodium chloride | Acute EC50 4.74 g/L Fresh water     | Algae - Chlamydomonas reinhardtii   | 96 hours |
|  | Acute EC50 519.6 mg/l Fresh water   | Crustaceans - Cypris subglobosa   | 48 hours |
|  | Acute EC50 402600 µg/l Fresh water  | Daphnia - Daphnia magna   | 48 hours |
|  | Acute IC50 6.87 g/L Fresh water     | Aquatic plants - Lemna minor  | 96 hours |
|  | Acute LC50 1000000 µg/l Fresh water | Fish - Morone saxatilis - Larvae  | 96 hours |
|  | Chronic LC10 781 mg/l Fresh water   | Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling) | 3 weeks  |
|  | Chronic NOEC 6 g/L Fresh water      | Aquatic plants - Lemna minor  | 96 hours |
|  | Chronic NOEC 0.314 g/L Fresh water  | Daphnia - Daphnia pulex   | 21 days  |
|  | Chronic NOEC 100 mg/l Fresh water   | Fish - Gambusia holbrooki - Adult   | 8 weeks  |

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

**DOT / TDG / Mexico / IMDG / IATA** : Not regulated.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
Clean Water Act (CWA) 311: Edetic acid

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304**

[Composition/information on ingredients](#)



## Section 15. Regulatory information

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** :  SureSelect XT2 Binding Buffer Not applicable.  
 SureSelect XT2 Wash 1 Not applicable.  
 SureSelect XT2 Wash 2 Not applicable.

### Composition/information on ingredients

| Name  | %   | Classification               |
|---|-----|------------------------------|
| <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer |     |                              |
| Sodium chloride   | <10 | EYE IRRITATION - Category 2A |

### State regulations

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

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

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

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

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

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

**Malaysia** : Not determined.

**New Zealand** : All components are listed or exempted.

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

**Republic of Korea** : All components are listed or exempted.

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

**Thailand** :  Not determined.

**Turkey** :  Not determined.

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

**Viet Nam** :  Not determined.

## Section 16. Other information

### History

**Date of issue** : 01/03/2018

**Date of previous issue** : 11/25/2015.

**Version** : 3

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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