

# SAFETY DATA SHEET



SureSelect Target Enrichment-Box 1, Part Number 5190-4393

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

### 1.1 Product identifier

**Product name** : SureSelect Target Enrichment-Box 1, Part Number 5190-4393  
**Part No. (Kit)** : 5190-4393  
**Part No.** : SureSelect Hyb 1 5190-4396  
SureSelect Hyb 2 5190-4397  
SureSelect Hyb 4 5190-4406  
SureSelect Binding Buffer 5190-4399  
SureSelect Wash Buffer 1 5190-4400  
SureSelect Wash Buffer 2 5190-4401  
SureSelect Elution Buffer 5190-4410  
SureSelect Neutralization Buffer 5190-4403

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

| Identified uses                  |         |
|----------------------------------|---------|
| Analytical reagent.              |         |
| SureSelect Hyb 1                 | 0.4 ml  |
| SureSelect Hyb 2                 | 1.25 ml |
| SureSelect Hyb 4                 | 1.25 ml |
| SureSelect Binding Buffer        | 13.2 ml |
| SureSelect Wash Buffer 1         | 8 ml    |
| SureSelect Wash Buffer 2         | 24 ml   |
| SureSelect Elution Buffer        | 5.8 ml  |
| SureSelect Neutralization Buffer | 0.96 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

|                           |   |                                  |         |
|---------------------------|---|----------------------------------|---------|
| <b>Product definition</b> | : | ☑ SureSelect Hyb 1               | Mixture |
|                           |   | SureSelect Hyb 2                 | Mixture |
|                           |   | SureSelect Hyb 4                 | Mixture |
|                           |   | SureSelect Binding Buffer        | Mixture |
|                           |   | SureSelect Wash Buffer 1         | Mixture |
|                           |   | SureSelect Wash Buffer 2         | Mixture |
|                           |   | SureSelect Elution Buffer        | Mixture |
|                           |   | SureSelect Neutralization Buffer | Mixture |

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

☑ SureSelect Hyb 1  
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

#### **SureSelect Neutralization Buffer**



H315 SKIN CORROSION/IRRITATION - Category 2  
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

|   |   |                                    |  |
|---|---|------------------------------------|--|
| <b>Ingredients of unknown toxicity</b>    | : | ☑ SureSelect Hyb 1                 | Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%                  |
|   |   | SureSelect Hyb 2                   | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%             |
|   |   | SureSelect Hyb 4                   | Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%                 |
|   |   | SureSelect Binding Buffer          | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%             |
|   |   | SureSelect Neutralization Buffer   | Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%                  |
|   |   |                                    | 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%                   |
| <b>Ingredients of unknown ecotoxicity</b> | : | ☑ SureSelect 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

|                          |   |                                  |   |
|--------------------------|---|----------------------------------|---|
| <b>Hazard pictograms</b> | : | ☑ SureSelect Hyb 1               |  |
|                          |   | SureSelect Neutralization Buffer |  |

## SECTION 2: Hazards identification

|  |   |  |   |
|--|---|--|---|
| <b>Signal word</b>                     | : | SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | Warning<br>No signal word.<br>No signal word.<br>No signal word.<br>No signal word.<br>No signal word.<br>No signal word.<br>No signal word.<br>Warning   |
| <b>Hazard statements</b>               | : | SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | H319 - Causes serious eye irritation.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>H319 - Causes serious eye irritation.<br>H315 - Causes skin irritation. |
| <b><u>Precautionary statements</u></b> |   |  |   |
| <b>Prevention</b>                      | : | SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | P280 - Wear eye or face protection.<br>P264 - Wash hands thoroughly after handling.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>P280 - Wear protective gloves. Wear eye or face protection.<br>P264 - Wash hands thoroughly after handling.  |
| <b>Response</b>                        | : | SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  |

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## SECTION 2: Hazards identification

|   |  |  |
|---|--|--|
| <b>Storage</b>  | : <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Disposal</b>   | : <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.   |
| <b>Hazardous ingredients</b>  | : <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Neutralization Buffer  | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.  |
| <b>Supplemental label elements</b>  | : <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | Not applicable.<br>Safety data sheet available on request.<br>Safety data sheet available on request.<br>Safety data sheet available on request.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable. |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | : <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.   |

### Special packaging requirements

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**SECTION 2: Hazards identification**

|                                  |   |                                  |                 |
|----------------------------------|---|----------------------------------|-----------------|
| <b>Tactile warning of danger</b> | : | SureSelect Hyb 1                 | Not applicable. |
|                                  |   | SureSelect Hyb 2                 | Not applicable. |
|                                  |   | SureSelect Hyb 4                 | Not applicable. |
|                                  |   | SureSelect Binding Buffer        | Not applicable. |
|                                  |   | SureSelect Wash Buffer 1         | Not applicable. |
|                                  |   | SureSelect Wash Buffer 2         | Not applicable. |
|                                  |   | SureSelect Elution Buffer        | Not applicable. |
|                                  |   | SureSelect Neutralization Buffer | Not applicable. |

**2.3 Other hazards**

|  |   |                                  |             |
|--|---|----------------------------------|-------------|
| <b>Other hazards which do not result in classification</b> | : | SureSelect Hyb 1                 | None known. |
|  |   | SureSelect Hyb 2                 | None known. |
|  |   | SureSelect Hyb 4                 | None known. |
|  |   | SureSelect Binding Buffer        | None known. |
|  |   | SureSelect Wash Buffer 1         | None known. |
|  |   | SureSelect Wash Buffer 2         | None known. |
|  |   | SureSelect Elution Buffer        | None known. |
|  |   | SureSelect Neutralization Buffer | None known. |

**SECTION 3: Composition/information on ingredients**

|                       |   |                                  |         |
|-----------------------|---|----------------------------------|---------|
| <b>3.1 Substances</b> | : | SureSelect Hyb 1                 | Mixture |
|                       |   | SureSelect Hyb 2                 | Mixture |
|                       |   | SureSelect Hyb 4                 | Mixture |
|                       |   | SureSelect Binding Buffer        | Mixture |
|                       |   | SureSelect Wash Buffer 1         | Mixture |
|                       |   | SureSelect Wash Buffer 2         | Mixture |
|                       |   | SureSelect Elution Buffer        | Mixture |
|                       |   | SureSelect Neutralization Buffer | Mixture |

| Product/ingredient name  | Identifiers                     | %         | Regulation (EC) No. 1272/2008 [CLP]  | Type |
|--|---------------------------------|-----------|--|------|
| <b>SureSelect Hyb 1</b><br>Sodium chloride                                   | EC: 231-598-3<br>CAS: 7647-14-5 | ≥10 - ≤25 | Eye Irrit. 2, H319   | [1]  |
| <b>SureSelect Hyb 2</b><br>Disodium dihydrogen ethylenediaminetetraacetate   | EC: 205-358-3<br>CAS: 139-33-3  | ≥10 - ≤25 | Acute Tox. 4, H302   | [1]  |
| <b>SureSelect Hyb 4</b><br>Sulfuric acid monododecyl ester sodium salt (1:1) | CAS: 8012-56-4                  | ≤3        | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 3, H412 | [1]  |
| <b>SureSelect Binding Buffer</b><br>Sodium chloride                          | EC: 231-598-3<br>CAS: 7647-14-5 | <10       | Eye Irrit. 2, H319   | [1]  |

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**SECTION 3: Composition/information on ingredients**

|   |   |                     |  |            |
|---|---|---------------------|--|------------|
| <p><b>SureSelect Neutralization Buffer</b><br/>2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride</p> | <p>EC: 214-684-5<br/>CAS: 1185-53-1</p> | <p>≥10 - &lt;20</p> | <p>Skin Irrit. 2, H315<br/>Eye Irrit. 2, H319<br/>STOT SE 3, H335</p> <p><b>See Section 16 for the full text of the H statements declared above.</b></p> | <p>[1]</p> |
|---|---|---------------------|--|------------|

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
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

|                    |                                  |  |
|--------------------|----------------------------------|--|
| <b>Eye contact</b> | : SureSelect Hyb 1               | 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.  |
|                    | SureSelect Hyb 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.  |
|                    | SureSelect Hyb 4                 | 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 Binding Buffer        | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  |
|                    | SureSelect Wash Buffer 1         | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  |
|                    | SureSelect Wash Buffer 2         | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  |
|                    | SureSelect Elution 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 Neutralization Buffer | 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.  |
| <b>Inhalation</b>  | : SureSelect Hyb 1               | 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 Hyb 2                 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition   |

**SECTION 4: First aid measures**

products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

- SureSelect Hyb 4 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect Binding Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect Wash Buffer 1 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect Wash Buffer 2 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect Elution Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect 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 Hyb 1 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- SureSelect Hyb 2 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- SureSelect Hyb 4 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- SureSelect Binding Buffer Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- SureSelect Wash Buffer 1 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- SureSelect Wash Buffer 2 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- SureSelect Elution Buffer Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- SureSelect Neutralization Buffer Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.



## SECTION 4: First aid measures

### Ingestion

: SureSelect Hyb 1

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 Hyb 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 Hyb 4

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 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 Wash Buffer 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 Wash Buffer 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 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 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



## SECTION 4: First aid measures

|                                   |                                  |  |
|-----------------------------------|----------------------------------|--|
|                                   |                                  | open airway. Loosen tight clothing such as a collar, tie, belt or waistband.   |
| <b>Protection of first-aiders</b> | : SureSelect Hyb 1               | 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 Hyb 2                 | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | SureSelect Hyb 4                 | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | SureSelect Binding Buffer        | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | SureSelect Wash Buffer 1         | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | SureSelect Wash Buffer 2         | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | SureSelect Elution Buffer        | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | SureSelect 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

|                     |                                  |   |
|---------------------|----------------------------------|---|
| <b>Eye contact</b>  | : SureSelect Hyb 1               | Causes serious eye irritation.                    |
|                     | SureSelect Hyb 2                 | No known significant effects or critical hazards. |
|                     | SureSelect Hyb 4                 | No known significant effects or critical hazards. |
|                     | SureSelect Binding Buffer        | No known significant effects or critical hazards. |
|                     | SureSelect Wash Buffer 1         | No known significant effects or critical hazards. |
|                     | SureSelect Wash Buffer 2         | No known significant effects or critical hazards. |
|                     | SureSelect Elution Buffer        | No known significant effects or critical hazards. |
|                     | SureSelect Neutralization Buffer | Causes serious eye irritation.                    |
| <b>Inhalation</b>   | : SureSelect Hyb 1               | No known significant effects or critical hazards. |
|                     | SureSelect Hyb 2                 | No known significant effects or critical hazards. |
|                     | SureSelect Hyb 4                 | No known significant effects or critical hazards. |
|                     | SureSelect Binding Buffer        | No known significant effects or critical hazards. |
|                     | SureSelect Wash Buffer 1         | No known significant effects or critical hazards. |
|                     | SureSelect Wash Buffer 2         | No known significant effects or critical hazards. |
|                     | SureSelect Elution Buffer        | No known significant effects or critical hazards. |
|                     | SureSelect Neutralization Buffer | No known significant effects or critical hazards. |
| <b>Skin contact</b> | : SureSelect Hyb 1               | No known significant effects or critical hazards. |
|                     | SureSelect Hyb 2                 | No known significant effects or critical hazards. |
|                     | SureSelect Hyb 4                 | No known significant effects or critical hazards. |
|                     | SureSelect Binding Buffer        | No known significant effects or critical hazards. |
|                     | SureSelect Wash Buffer 1         | No known significant effects or critical hazards. |
|                     | SureSelect Wash Buffer 2         | No known significant effects or critical hazards. |
|                     | SureSelect Elution Buffer        | No known significant effects or critical hazards. |
|                     | SureSelect Neutralization Buffer | Causes skin irritation.                           |

## SECTION 4: First aid measures

|                  |   |                                  |   |
|------------------|---|----------------------------------|---|
| <b>Ingestion</b> | : | SureSelect Hyb 1                 | No known significant effects or critical hazards. |
|                  |   | SureSelect Hyb 2                 | No known significant effects or critical hazards. |
|                  |   | SureSelect Hyb 4                 | No known significant effects or critical hazards. |
|                  |   | SureSelect Binding Buffer        | No known significant effects or critical hazards. |
|                  |   | SureSelect Wash Buffer 1         | No known significant effects or critical hazards. |
|                  |   | SureSelect Wash Buffer 2         | No known significant effects or critical hazards. |
|                  |   | SureSelect Elution Buffer        | No known significant effects or critical hazards. |
|                  |   | SureSelect Neutralization Buffer | No known significant effects or critical hazards. |

### Over-exposure signs/symptoms

|                    |   |                                  |  |
|--------------------|---|----------------------------------|--|
| <b>Eye contact</b> | : | SureSelect Hyb 1                 | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
|                    |   | SureSelect Hyb 2                 | No specific data.  |
|                    |   | SureSelect Hyb 4                 | No specific data.  |
|                    |   | SureSelect Binding Buffer        | No specific data.  |
|                    |   | SureSelect Wash Buffer 1         | No specific data.  |
|                    |   | SureSelect Wash Buffer 2         | No specific data.  |
|                    |   | SureSelect Elution Buffer        | No specific data.  |
|                    |   | SureSelect Neutralization Buffer | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |

|                   |   |                                  |                   |
|-------------------|---|----------------------------------|-------------------|
| <b>Inhalation</b> | : | SureSelect Hyb 1                 | No specific data. |
|                   |   | SureSelect Hyb 2                 | No specific data. |
|                   |   | SureSelect Hyb 4                 | No specific data. |
|                   |   | SureSelect Binding Buffer        | No specific data. |
|                   |   | SureSelect Wash Buffer 1         | No specific data. |
|                   |   | SureSelect Wash Buffer 2         | No specific data. |
|                   |   | SureSelect Elution Buffer        | No specific data. |
|                   |   | SureSelect Neutralization Buffer | No specific data. |

|                     |   |                                  |  |
|---------------------|---|----------------------------------|--|
| <b>Skin contact</b> | : | SureSelect Hyb 1                 | No specific data.  |
|                     |   | SureSelect Hyb 2                 | No specific data.  |
|                     |   | SureSelect Hyb 4                 | No specific data.  |
|                     |   | SureSelect Binding Buffer        | No specific data.  |
|                     |   | SureSelect Wash Buffer 1         | No specific data.  |
|                     |   | SureSelect Wash Buffer 2         | No specific data.  |
|                     |   | SureSelect Elution Buffer        | No specific data.  |
|                     |   | SureSelect Neutralization Buffer | Adverse symptoms may include the following:<br>irritation<br>redness |

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|                  |   |   |   |
|------------------|---|---|---|
| <b>Ingestion</b> | : | <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect<br>Neutralization Buffer | No specific data.<br>No specific data.<br>No specific data.<br>No specific data.<br>No specific data.<br>No specific data.<br>No specific data.<br>No specific data.<br>No specific data. |
|------------------|---|---|---|

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

|                           |   |   |  |
|---------------------------|---|---|--|
| <b>Notes to physician</b> | : | <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect<br>Neutralization Buffer | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.<br>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.<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.<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.<br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.<br>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. |
|---------------------------|---|---|--|

|                            |   |   |  |
|----------------------------|---|---|--|
| <b>Specific treatments</b> | : | <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect<br>Neutralization Buffer | No specific treatment.<br>No specific treatment.<br>No specific treatment.<br>No specific treatment.<br>No specific treatment.<br>No specific treatment.<br>No specific treatment.<br>No specific treatment. |
|----------------------------|---|---|--|

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

|                                     |   |   |  |
|-------------------------------------|---|---|--|
| <b>Suitable extinguishing media</b> | : | <input checked="" type="checkbox"/> SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect<br>Neutralization Buffer | 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.<br>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.<br>Use an extinguishing agent suitable for the surrounding fire.<br>Use an extinguishing agent suitable for the surrounding fire. |
|-------------------------------------|---|---|--|

## SECTION 5: Firefighting measures

|                                       |   |  |             |
|---------------------------------------|---|--|-------------|
| <b>Unsuitable extinguishing media</b> | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | None known. |
|                                       |   | SureSelect Hyb 2                                     | None known. |
|                                       |   | SureSelect Hyb 4                                     | None known. |
|                                       |   | SureSelect Binding Buffer                            | None known. |
|                                       |   | SureSelect Wash Buffer 1                             | None known. |
|                                       |   | SureSelect Wash Buffer 2                             | None known. |
|                                       |   | SureSelect Elution Buffer                            | None known. |
|                                       |   | SureSelect Neutralization Buffer                     | None known. |

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

|  |   |  |  |
|--|---|--|--|
| <b>Hazards from the substance or mixture</b> | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | In a fire or if heated, a pressure increase will occur and the container may burst.  |
|  |   | SureSelect Hyb 2                                     | In a fire or if heated, a pressure increase will occur and the container may burst.  |
|  |   | SureSelect Hyb 4                                     | In a fire or if heated, a pressure increase will occur and the container may burst.  |
|  |   | SureSelect Binding Buffer                            | In a fire or if heated, a pressure increase will occur and the container may burst.  |
|  |   | SureSelect Wash Buffer 1                             | In a fire or if heated, a pressure increase will occur and the container may burst.  |
|  |   | SureSelect Wash Buffer 2                             | In a fire or if heated, a pressure increase will occur and the container may burst.  |
|  |   | SureSelect Elution Buffer                            | In a fire or if heated, a pressure increase will occur and the container may burst.  |
|  |   | SureSelect Neutralization Buffer                     | In a fire or if heated, a pressure increase will occur and the container may burst.  |
| <b>Hazardous combustion products</b>         | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Decomposition products may include the following materials:<br>phosphorus oxides<br>halogenated compounds<br>metal oxide/oxides                  |
|  |   | SureSelect Hyb 2                                     | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>metal oxide/oxides        |
|  |   | SureSelect Hyb 4                                     | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>sulfur oxides<br>metal oxide/oxides          |
|  |   | SureSelect Binding Buffer                            | Decomposition products may include the following materials:<br><br>halogenated compounds<br>metal oxide/oxides                                   |
|  |   | SureSelect Wash Buffer 1                             | No specific data.  |
|  |   | SureSelect Wash Buffer 2                             | No specific data.  |
|  |   | SureSelect Elution Buffer                            | No specific data.  |
|  |   | SureSelect Neutralization Buffer                     | Decomposition products may include the following materials:<br><br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>halogenated compounds |

## SECTION 5: Firefighting measures

### 5.3 Advice for firefighters

|   |                                  |   |
|---|----------------------------------|---|
| <b>Special precautions for fire-fighters</b>          | : SureSelect Hyb 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 Hyb 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.   |
|   | SureSelect Hyb 4                 | 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 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 Wash Buffer 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 Wash Buffer 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.   |
|   | SureSelect Elution 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 Neutralization 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.   |
| <b>Special protective equipment for fire-fighters</b> | : SureSelect Hyb 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 Hyb 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. |
|   | SureSelect Hyb 4                 | 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 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 Wash Buffer 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 Wash Buffer 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. |

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## SECTION 5: Firefighting measures

|                                  |   |
|----------------------------------|---|
| SureSelect Elution 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 Neutralization 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. |

## SECTION 6: Accidental release measures

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

For non-emergency personnel

: SureSelect Hyb 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SureSelect Hyb 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.

SureSelect Hyb 4

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 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 Wash Buffer 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 Wash Buffer 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.

SureSelect Elution 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 Neutralization 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.



## SECTION 6: Accidental release measures

|                                      |                                  |   |
|--------------------------------------|----------------------------------|---|
| <b>For emergency responders</b>      | : SureSelect Hyb 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 Hyb 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".             |
|                                      | SureSelect Hyb 4                 | 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 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 Wash Buffer 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 Wash Buffer 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".             |
|                                      | SureSelect Elution 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 Neutralization 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".             |
| <b>6.2 Environmental precautions</b> | : SureSelect Hyb 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 Hyb 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 Hyb 4                 | 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 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 Wash Buffer 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 Wash Buffer 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 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                       | Avoid dispersal of spilt material and runoff and contact with   |



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## SECTION 6: Accidental release measures

Neutralization Buffer 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 Hyb 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 Hyb 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 Hyb 4                 | 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 Binding Buffer        | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.                  |
|                         | SureSelect Wash Buffer 1         | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.                  |
|                         | SureSelect Wash Buffer 2         | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.                  |
|                         | SureSelect 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. Dispose of via a licensed waste disposal contractor. |
|                         | SureSelect 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.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

## SECTION 7: Handling and storage

|   |                                  |  |
|---|----------------------------------|--|
| <b>Protective measures</b>                    | : SureSelect Hyb 1               | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|   | SureSelect Hyb 2                 | Put on appropriate personal protective equipment (see Section 8).  |
|   | SureSelect Hyb 4                 | Put on appropriate personal protective equipment (see Section 8).  |
|   | SureSelect Binding Buffer        | Put on appropriate personal protective equipment (see Section 8).  |
|   | SureSelect Wash Buffer 1         | Put on appropriate personal protective equipment (see Section 8).  |
|   | SureSelect Wash Buffer 2         | Put on appropriate personal protective equipment (see Section 8).  |
|   | SureSelect Elution Buffer        | Put on appropriate personal protective equipment (see Section 8). Keep away from acids.  |
|   | SureSelect Neutralization Buffer | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| <b>Advice on general occupational hygiene</b> | : SureSelect Hyb 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 Hyb 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.                                    |
|   | SureSelect Hyb 4                 | 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 Binding Buffer        | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.                                    |
|   | SureSelect Wash Buffer 1         | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.                                    |
|   | SureSelect Wash Buffer 2         | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.                                    |

## SECTION 7: Handling and storage

|                                  |   |
|----------------------------------|---|
| SureSelect Elution 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 Neutralization 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. |

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

#### Storage

|                           |   |
|---------------------------|---|
| : SureSelect Hyb 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 Hyb 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. |
| SureSelect Hyb 4          | 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 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| SureSelect Wash Buffer 1  | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use   |

## SECTION 7: Handling and storage

|                                  |  |
|----------------------------------|--|
| SureSelect Wash Buffer 2         | appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.<br>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 Elution 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. Separate from acids. 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 Neutralization 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 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 Hyb 1               | Industrial applications, Professional applications. |
| SureSelect Hyb 2                 | Industrial applications, Professional applications. |
| SureSelect Hyb 4                 | Industrial applications, Professional applications. |
| SureSelect Binding Buffer        | Industrial applications, Professional applications. |
| SureSelect Wash Buffer 1         | Industrial applications, Professional applications. |
| SureSelect Wash Buffer 2         | Industrial applications, Professional applications. |
| SureSelect Elution Buffer        | Industrial applications, Professional applications. |
| SureSelect Neutralization Buffer | Industrial applications, Professional applications. |

#### Industrial sector specific solutions

|                                  |                 |
|----------------------------------|-----------------|
| : SureSelect Hyb 1               | Not applicable. |
| SureSelect Hyb 2                 | Not applicable. |
| SureSelect Hyb 4                 | Not applicable. |
| SureSelect Binding Buffer        | Not applicable. |
| SureSelect Wash Buffer 1         | Not applicable. |
| SureSelect Wash Buffer 2         | Not applicable. |
| SureSelect Elution Buffer        | Not applicable. |
| SureSelect 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** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

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

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

#### Skin protection

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

**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.

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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

#### Appearance

|                                  |                |                                  |                |                           |                |
|----------------------------------|----------------|----------------------------------|----------------|---------------------------|----------------|
| <b>Physical state</b>            | :              | ☑ SureSelect Hyb 1               | Liquid.        |                           |                |
|                                  |                | SureSelect Hyb 2                 | Liquid.        |                           |                |
|                                  |                | SureSelect Hyb 4                 | Liquid.        |                           |                |
|                                  |                | SureSelect Binding Buffer        | Liquid.        |                           |                |
|                                  |                | SureSelect Wash Buffer 1         | Liquid.        |                           |                |
|                                  |                | SureSelect Wash Buffer 2         | Liquid.        |                           |                |
|                                  |                | SureSelect Elution Buffer        | Liquid.        |                           |                |
|                                  |                | SureSelect Neutralization Buffer | Liquid.        |                           |                |
|                                  |                | <b>Colour</b>                    | :              | ☑ SureSelect Hyb 1        | Not available. |
|                                  |                |                                  |                | SureSelect Hyb 2          | Not available. |
|                                  |                |                                  |                | SureSelect Hyb 4          | Not available. |
|                                  |                |                                  |                | SureSelect Binding Buffer | Not available. |
|                                  |                |                                  |                | SureSelect Wash Buffer 1  | Not available. |
| SureSelect Wash Buffer 2         | Not available. |                                  |                |                           |                |
| SureSelect Elution Buffer        | Not available. |                                  |                |                           |                |
| SureSelect Neutralization Buffer | Not available. |                                  |                |                           |                |
| <b>Odour</b>                     | :              |                                  |                | ☑ SureSelect Hyb 1        | Not available. |
|                                  |                |                                  |                | SureSelect Hyb 2          | Not available. |
|                                  |                |                                  |                | SureSelect Hyb 4          | Not available. |
|                                  |                |                                  |                | SureSelect Binding Buffer | Not available. |
|                                  |                |                                  |                | SureSelect Wash Buffer 1  | Not available. |
|                                  |                | SureSelect Wash Buffer 2         | Not available. |                           |                |
|                                  |                | SureSelect Elution Buffer        | Not available. |                           |                |
|                                  |                | SureSelect Neutralization Buffer | Not available. |                           |                |
|                                  |                | <b>Odour threshold</b>           | :              | ☑ SureSelect Hyb 1        | Not available. |
|                                  |                |                                  |                | SureSelect Hyb 2          | Not available. |
|                                  |                |                                  |                | SureSelect Hyb 4          | Not available. |
|                                  |                |                                  |                | SureSelect Binding Buffer | Not available. |
|                                  |                |                                  |                | SureSelect Wash Buffer 1  | Not available. |
| SureSelect Wash Buffer 2         | Not available. |                                  |                |                           |                |
| SureSelect Elution Buffer        | Not available. |                                  |                |                           |                |
| SureSelect Neutralization Buffer | Not available. |                                  |                |                           |                |



SureSelect Target Enrichment-Box 1, Part Number 5190-4393

## SECTION 9: Physical and chemical properties

|  |                |                                     |                |                           |                |
|--|----------------|-------------------------------------|----------------|---------------------------|----------------|
| <b>pH</b>                                      | :              | SureSelect Hyb 1                    | 7.4            |                           |                |
|  |                | SureSelect Hyb 2                    | 8              |                           |                |
|  |                | SureSelect Hyb 4                    | 5.2 to 6.2     |                           |                |
|  |                | SureSelect Binding Buffer           | 7.5            |                           |                |
|  |                | SureSelect Wash Buffer 1            | 7              |                           |                |
|  |                | SureSelect Wash Buffer 2            | 7              |                           |                |
|  |                | SureSelect Elution Buffer           | 12.2 to 13.4   |                           |                |
|  |                | SureSelect Neutralization Buffer    | 7.5            |                           |                |
|  |                | <b>Melting point/freezing point</b> | :              | SureSelect Hyb 1          | Not available. |
|  |                |                                     |                | SureSelect Hyb 2          | Not available. |
|  |                |                                     |                | SureSelect Hyb 4          | 0°C            |
|  |                |                                     |                | SureSelect Binding Buffer | Not available. |
|  |                |                                     |                | SureSelect Wash Buffer 1  | 0°C            |
|  |                |                                     |                | SureSelect Wash Buffer 2  | 0°C            |
| SureSelect Elution Buffer                      | 0°C            |                                     |                |                           |                |
| SureSelect Neutralization Buffer               | Not available. |                                     |                |                           |                |
| <b>Initial boiling point and boiling range</b> | :              |                                     |                | SureSelect Hyb 1          | Not available. |
|  |                |                                     |                | SureSelect Hyb 2          | Not available. |
|  |                | SureSelect Hyb 4                    | 100°C          |                           |                |
|  |                | SureSelect Binding Buffer           | Not available. |                           |                |
|  |                | SureSelect Wash Buffer 1            | 100°C          |                           |                |
|  |                | SureSelect Wash Buffer 2            | 100°C          |                           |                |
|  |                | SureSelect Elution Buffer           | 100°C          |                           |                |
|  |                | SureSelect Neutralization Buffer    | Not available. |                           |                |
|  |                | <b>Flash point</b>                  | :              | SureSelect Hyb 1          | Not available. |
|  |                |                                     |                | SureSelect Hyb 2          | Not available. |
| SureSelect Hyb 4                               | Not available. |                                     |                |                           |                |
| SureSelect Binding Buffer                      | Not available. |                                     |                |                           |                |
| SureSelect Wash Buffer 1                       | Not available. |                                     |                |                           |                |
| SureSelect Wash Buffer 2                       | Not available. |                                     |                |                           |                |
| SureSelect Elution Buffer                      | Not available. |                                     |                |                           |                |
| SureSelect Neutralization Buffer               | Not available. |                                     |                |                           |                |
| <b>Evaporation rate</b>                        | :              |                                     |                | SureSelect Hyb 1          | Not available. |
|  |                |                                     |                | SureSelect Hyb 2          | Not available. |
|  |                | SureSelect Hyb 4                    | Not available. |                           |                |
|  |                | SureSelect Binding Buffer           | Not available. |                           |                |
|  |                | SureSelect Wash Buffer 1            | Not available. |                           |                |
|  |                | SureSelect Wash Buffer 2            | Not available. |                           |                |



SureSelect Target Enrichment-Box 1, Part Number 5190-4393

## SECTION 9: Physical and chemical properties

|   |                                  |                 |
|---|----------------------------------|-----------------|
|   | SureSelect Elution Buffer        | Not available.  |
|   | SureSelect Neutralization Buffer | Not available.  |
| <b>Flammability (solid, gas)</b>                    | : SureSelect Hyb 1               | Not applicable. |
|   | SureSelect Hyb 2                 | Not applicable. |
|   | SureSelect Hyb 4                 | Not applicable. |
|   | SureSelect Binding Buffer        | Not applicable. |
|   | SureSelect Wash Buffer 1         | Not applicable. |
|   | SureSelect Wash Buffer 2         | Not applicable. |
|   | SureSelect Elution Buffer        | Not applicable. |
|   | SureSelect Neutralization Buffer | Not applicable. |
| <b>Upper/lower flammability or explosive limits</b> | : SureSelect Hyb 1               | Not available.  |
|   | SureSelect Hyb 2                 | Not available.  |
|   | SureSelect Hyb 4                 | Not available.  |
|   | SureSelect Binding Buffer        | Not available.  |
|   | SureSelect Wash Buffer 1         | Not available.  |
|   | SureSelect Wash Buffer 2         | Not available.  |
|   | SureSelect Elution Buffer        | Not available.  |
|   | SureSelect Neutralization Buffer | Not available.  |
| <b>Vapour pressure</b>                              | : SureSelect Hyb 1               | Not available.  |
|   | SureSelect Hyb 2                 | Not available.  |
|   | SureSelect Hyb 4                 | Not available.  |
|   | SureSelect Binding Buffer        | Not available.  |
|   | SureSelect Wash Buffer 1         | Not available.  |
|   | SureSelect Wash Buffer 2         | Not available.  |
|   | SureSelect Elution Buffer        | Not available.  |
|   | SureSelect Neutralization Buffer | Not available.  |
| <b>Vapour density</b>                               | : SureSelect Hyb 1               | Not available.  |
|   | SureSelect Hyb 2                 | Not available.  |
|   | SureSelect Hyb 4                 | Not available.  |
|   | SureSelect Binding Buffer        | Not available.  |
|   | SureSelect Wash Buffer 1         | Not available.  |
|   | SureSelect Wash Buffer 2         | Not available.  |
|   | SureSelect Elution Buffer        | Not available.  |
|   | SureSelect Neutralization Buffer | Not available.  |

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## SECTION 9: Physical and chemical properties

|   |  |  |
|---|--|--|
| <b>Relative density</b>                       | : SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer             | Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.   |
| <b>Solubility(ies)</b>                        | : SureSelect Hyb 1<br><br>SureSelect Hyb 2<br><br>SureSelect Hyb 4<br><br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer | Easily soluble in the following materials: cold water and hot water.<br><br>Easily soluble in the following materials: cold water and hot water.<br><br>Easily soluble in the following materials: cold water and hot water.<br><br>Easily soluble in the following materials: cold water and hot water.<br>Easily soluble in the following materials: cold water and hot water.<br>Easily soluble in the following materials: cold water and hot water.<br>Easily soluble in the following materials: cold water and hot water.<br>Easily soluble in the following materials: cold water and hot water.<br>Easily soluble in the following materials: cold water and hot water. |
| <b>Partition coefficient: n-octanol/water</b> | : SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer             | Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.   |
| <b>Auto-ignition temperature</b>              | : SureSelect Hyb 1<br>SureSelect Hyb 2<br>SureSelect Hyb 4<br>SureSelect Binding Buffer<br>SureSelect Wash Buffer 1<br>SureSelect Wash Buffer 2<br>SureSelect Elution Buffer<br>SureSelect Neutralization Buffer             | Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.   |

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## SECTION 9: Physical and chemical properties

**Decomposition temperature** : SureSelect Hyb 1 Not available.  
SureSelect Hyb 2 Not available.  
SureSelect Hyb 4 Not available.  
SureSelect Binding Buffer Not available.  
SureSelect Wash Buffer 1 Not available.  
SureSelect Wash Buffer 2 Not available.  
SureSelect Elution Buffer Not available.  
SureSelect Neutralization Buffer Not available.

**Viscosity** : SureSelect Hyb 1 Not available.  
SureSelect Hyb 2 Not available.  
SureSelect Hyb 4 Not available.  
SureSelect Binding Buffer Not available.  
SureSelect Wash Buffer 1 Not available.  
SureSelect Wash Buffer 2 Not available.  
SureSelect Elution Buffer Not available.  
SureSelect Neutralization Buffer Not available.

**Explosive properties** : SureSelect Hyb 1 Not available.  
SureSelect Hyb 2 Not available.  
SureSelect Hyb 4 Not available.  
SureSelect Binding Buffer Not available.  
SureSelect Wash Buffer 1 Not available.  
SureSelect Wash Buffer 2 Not available.  
SureSelect Elution Buffer Not available.  
SureSelect Neutralization Buffer Not available.

**Oxidising properties** : SureSelect Hyb 1 Not available.  
SureSelect Hyb 2 Not available.  
SureSelect Hyb 4 Not available.  
SureSelect Binding Buffer Not available.  
SureSelect Wash Buffer 1 Not available.  
SureSelect Wash Buffer 2 Not available.  
SureSelect Elution Buffer Not available.  
SureSelect Neutralization Buffer Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

|  |  |  |
|--|--|--|
| <b>10.1 Reactivity</b>                         | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific test data related to reactivity available for this product or its ingredients. |
|  | SureSelect Hyb 2                                       | No specific test data related to reactivity available for this product or its ingredients. |
|  | SureSelect Hyb 4                                       | No specific test data related to reactivity available for this product or its ingredients. |
|  | SureSelect Binding Buffer                              | No specific test data related to reactivity available for this product or its ingredients. |
|  | SureSelect Wash Buffer 1                               | No specific test data related to reactivity available for this product or its ingredients. |
|  | SureSelect Wash Buffer 2                               | No specific test data related to reactivity available for this product or its ingredients. |
|  | SureSelect Elution Buffer                              | No specific test data related to reactivity available for this product or its ingredients. |
|  | SureSelect Neutralization Buffer                       | No specific test data related to reactivity available for this product or its ingredients. |
| <b>10.2 Chemical stability</b>                 | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | The product is stable.   |
|  | SureSelect Hyb 2                                       | The product is stable.   |
|  | SureSelect Hyb 4                                       | The product is stable.   |
|  | SureSelect Binding Buffer                              | The product is stable.   |
|  | SureSelect Wash Buffer 1                               | The product is stable.   |
|  | SureSelect Wash Buffer 2                               | The product is stable.   |
|  | SureSelect Elution Buffer                              | The product is stable.   |
|  | SureSelect Neutralization Buffer                       | The product is stable.   |
| <b>10.3 Possibility of hazardous reactions</b> | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | Under normal conditions of storage and use, hazardous reactions will not occur.            |
|  | SureSelect Hyb 2                                       | Under normal conditions of storage and use, hazardous reactions will not occur.            |
|  | SureSelect Hyb 4                                       | Under normal conditions of storage and use, hazardous reactions will not occur.            |
|  | SureSelect Binding Buffer                              | Under normal conditions of storage and use, hazardous reactions will not occur.            |
|  | SureSelect Wash Buffer 1                               | Under normal conditions of storage and use, hazardous reactions will not occur.            |
|  | SureSelect Wash Buffer 2                               | Under normal conditions of storage and use, hazardous reactions will not occur.            |
|  | SureSelect Elution Buffer                              | Under normal conditions of storage and use, hazardous reactions will not occur.            |
|  | SureSelect Neutralization Buffer                       | Under normal conditions of storage and use, hazardous reactions will not occur.            |
| <b>10.4 Conditions to avoid</b>                | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific data.  |
|  | SureSelect Hyb 2                                       | No specific data.  |
|  | SureSelect Hyb 4                                       | No specific data.  |
|  | SureSelect Binding Buffer                              | No specific data.  |
|  | SureSelect Wash Buffer 1                               | No specific data.  |
|  | SureSelect Wash Buffer 2                               | No specific data.  |
|  | SureSelect Elution Buffer                              | No specific data.  |
|  | SureSelect Neutralization Buffer                       | No specific data.  |

**SureSelect Target Enrichment-Box 1, Part Number 5190-4393**

**SECTION 10: Stability and reactivity**

|                                    |   |                                  |   |
|------------------------------------|---|----------------------------------|---|
| <b>10.5 Incompatible materials</b> | : | SureSelect Hyb 1                 | May react or be incompatible with oxidising materials.          |
|                                    |   | SureSelect Hyb 2                 | May react or be incompatible with oxidising materials.          |
|                                    |   | SureSelect Hyb 4                 | May react or be incompatible with oxidising materials.          |
|                                    |   | SureSelect Binding Buffer        | May react or be incompatible with oxidising materials.          |
|                                    |   | SureSelect Wash Buffer 1         | May react or be incompatible with oxidising materials.          |
|                                    |   | SureSelect Wash Buffer 2         | May react or be incompatible with oxidising materials.          |
|                                    |   | SureSelect Elution Buffer        | Reactive or incompatible with the following materials:<br>acids |
|                                    |   | SureSelect Neutralization Buffer | May react or be incompatible with oxidising materials.          |

|  |   |                                  |  |
|--|---|----------------------------------|--|
| <b>10.6 Hazardous decomposition products</b> | : | SureSelect Hyb 1                 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  |   | SureSelect Hyb 2                 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  |   | SureSelect Hyb 4                 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  |   | SureSelect Binding Buffer        | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  |   | SureSelect Wash Buffer 1         | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  |   | SureSelect Wash Buffer 2         | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  |   | SureSelect Elution Buffer        | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|  |   | SureSelect 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

| Product/ingredient name   | Result    | Species | Dose       | Exposure |
|---|-----------|---------|------------|----------|
| SureSelect Hyb 1<br>Sodium chloride                                   | LD50 Oral | Rat     | 3000 mg/kg | -        |
| SureSelect Hyb 2<br>Disodium dihydrogen ethylenediaminetetraacetate   | LD50 Oral | Rat     | 2 g/kg     | -        |
| SureSelect Hyb 4<br>Sulfuric acid monododecyl ester sodium salt (1:1) | LD50 Oral | Rat     | 1288 mg/kg | -        |
| SureSelect Binding Buffer<br>Sodium chloride                          | LD50 Oral | Rat     | 3000 mg/kg | -        |

Acute toxicity estimates

| Route  | ATE value                |
|--|--------------------------|
| SureSelect Hyb 2<br>Oral                                 | 13698.6 mg/kg            |
| SureSelect Hyb 4<br>Oral<br>Inhalation (dusts and mists) | 128800 mg/kg<br>150 mg/l |
| SureSelect Wash Buffer 1                                 |                          |

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## SECTION 11: Toxicological information

|                                 |              |
|---------------------------------|--------------|
| Dermal                          | 580000 mg/kg |
| <b>SureSelect Wash Buffer 2</b> |              |
| Dermal                          | 580000 mg/kg |

### Irritation/Corrosion

| Product/ingredient name  | Result                   | Species | Score | Exposure                | Observation |
|--|--------------------------|---------|-------|-------------------------|-------------|
| <input checked="" type="checkbox"/> <b>SureSelect Hyb 1</b><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 | -           |
| <b>SureSelect Binding Buffer</b><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 | -           |

### Sensitiser

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

| Product/ingredient name  | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| <input checked="" type="checkbox"/> <b>SureSelect Hyb 4</b><br>Sulfuric acid monododecyl ester sodium salt (1:1) | Category 3 | Not applicable.   | Respiratory tract irritation |
| <b>SureSelect Neutralization Buffer</b><br>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride               | Category 3 | Not applicable.   | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

|  |  |
|--|--|
| <input checked="" type="checkbox"/> SureSelect Hyb 1 | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| SureSelect Hyb 2                                     | Not available.   |
| SureSelect Hyb 4                                     | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| SureSelect Binding Buffer                            | Not available.   |
| SureSelect Wash Buffer 1                             | Not available.   |
| SureSelect Wash Buffer 2                             | Not available.   |
| SureSelect Elution Buffer                            | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| SureSelect Neutralization Buffer                     | Routes of entry anticipated: Oral, Dermal, Inhalation. |

### Potential acute health effects

## SECTION 11: Toxicological information

|                     |                    |  |  |   |
|---------------------|--------------------|--|--|---|
| <b>Inhalation</b>   | :                  | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Hyb 2                                     | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Hyb 4                                     | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Binding Buffer                            | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Wash Buffer 1                             | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Wash Buffer 2                             | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Elution Buffer                            | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Neutralization Buffer                     | No known significant effects or critical hazards.    |   |
|                     | <b>Ingestion</b>   | :  | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
|                     |                    |  | SureSelect Hyb 2                                     | No known significant effects or critical hazards. |
|                     |                    | SureSelect Hyb 4                                     | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Binding Buffer                            | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Wash Buffer 1                             | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Wash Buffer 2                             | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Elution Buffer                            | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Neutralization Buffer                     | No known significant effects or critical hazards.    |   |
| <b>Skin contact</b> |                    | :  | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
|                     |                    |  | SureSelect Hyb 2                                     | No known significant effects or critical hazards. |
|                     |                    | SureSelect Hyb 4                                     | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Binding Buffer                            | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Wash Buffer 1                             | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Wash Buffer 2                             | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Elution Buffer                            | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Neutralization Buffer                     | Causes skin irritation.                              |   |
|                     | <b>Eye contact</b> | :  | <input checked="" type="checkbox"/> SureSelect Hyb 1 | Causes serious eye irritation.                    |
|                     |                    |  | SureSelect Hyb 2                                     | No known significant effects or critical hazards. |
|                     |                    | SureSelect Hyb 4                                     | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Binding Buffer                            | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Wash Buffer 1                             | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Wash Buffer 2                             | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Elution Buffer                            | No known significant effects or critical hazards.    |   |
|                     |                    | SureSelect Neutralization Buffer                     | Causes serious eye irritation.                       |   |

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

|                   |   |  |                   |
|-------------------|---|--|-------------------|
| <b>Inhalation</b> | : | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific data. |
|                   |   | SureSelect Hyb 2                                     | No specific data. |
|                   |   | SureSelect Hyb 4                                     | No specific data. |
|                   |   | SureSelect Binding Buffer                            | No specific data. |
|                   |   | SureSelect Wash Buffer 1                             | No specific data. |
|                   |   | SureSelect Wash Buffer 2                             | No specific data. |
|                   |   | SureSelect Elution Buffer                            | No specific data. |
|                   |   | SureSelect Neutralization Buffer                     | No specific data. |



## SECTION 11: Toxicological information

|                    |                     |  |  |  |
|--------------------|---------------------|--|--|--|
| <b>Ingestion</b>   | :                   | <input checked="" type="checkbox"/> SureSelect Hyb 1 | No specific data.  |  |
|                    |                     | SureSelect Hyb 2                                     | No specific data.  |  |
|                    |                     | SureSelect Hyb 4                                     | No specific data.  |  |
|                    |                     | SureSelect Binding Buffer                            | No specific data.  |  |
|                    |                     | SureSelect Wash Buffer 1                             | No specific data.  |  |
|                    |                     | SureSelect Wash Buffer 2                             | No specific data.  |  |
|                    |                     | SureSelect Elution Buffer                            | No specific data.  |  |
|                    |                     | SureSelect Neutralization Buffer                     | No specific data.  |  |
|                    | <b>Skin contact</b> | :  | <input checked="" type="checkbox"/> SureSelect Hyb 1                                     | No specific data.  |
|                    |                     |  | SureSelect Hyb 2   | No specific data.  |
|                    |                     | SureSelect Hyb 4                                     | No specific data.  |  |
|                    |                     | SureSelect Binding Buffer                            | No specific data.  |  |
|                    |                     | SureSelect Wash Buffer 1                             | No specific data.  |  |
|                    |                     | SureSelect Wash Buffer 2                             | No specific data.  |  |
|                    |                     | SureSelect Elution Buffer                            | No specific data.  |  |
|                    |                     | SureSelect Neutralization Buffer                     | Adverse symptoms may include the following:<br>irritation<br>redness                     |  |
| <b>Eye contact</b> |                     | :  | <input checked="" type="checkbox"/> SureSelect Hyb 1                                     | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
|                    |                     |  | SureSelect Hyb 2   | No specific data.  |
|                    |                     | SureSelect Hyb 4                                     | No specific data.  |  |
|                    |                     | SureSelect Binding Buffer                            | No specific data.  |  |
|                    |                     | SureSelect Wash Buffer 1                             | No specific data.  |  |
|                    |                     | SureSelect Wash Buffer 2                             | No specific data.  |  |
|                    |                     | SureSelect Elution Buffer                            | No specific data.  |  |
|                    |                     | SureSelect Neutralization Buffer                     | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>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

|                                  |  |  |   |
|----------------------------------|--|--|---|
| <b>General</b>                   | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Hyb 2                                       | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Hyb 4                                       | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Binding Buffer                              | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Wash Buffer 1                               | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Wash Buffer 2                               | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Elution Buffer                              | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Neutralization Buffer                       | No known significant effects or critical hazards.      |   |
|                                  | <b>Carcinogenicity</b>                                 | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
|                                  |  | SureSelect Hyb 2                                       | No known significant effects or critical hazards. |
| SureSelect Hyb 4                 |  | No known significant effects or critical hazards.      |   |
| SureSelect Binding Buffer        |  | No known significant effects or critical hazards.      |   |
| SureSelect Wash Buffer 1         |  | No known significant effects or critical hazards.      |   |
| SureSelect Wash Buffer 2         |  | No known significant effects or critical hazards.      |   |
| SureSelect Elution Buffer        |  | No known significant effects or critical hazards.      |   |
| SureSelect Neutralization Buffer |  | No known significant effects or critical hazards.      |   |
| <b>Mutagenicity</b>              |  | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
|                                  |  | SureSelect Hyb 2                                       | No known significant effects or critical hazards. |
|                                  | SureSelect Hyb 4                                       | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Binding Buffer                              | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Wash Buffer 1                               | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Wash Buffer 2                               | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Elution Buffer                              | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Neutralization Buffer                       | No known significant effects or critical hazards.      |   |
|                                  | <b>Teratogenicity</b>                                  | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
|                                  |  | SureSelect Hyb 2                                       | No known significant effects or critical hazards. |
| SureSelect Hyb 4                 |  | No known significant effects or critical hazards.      |   |
| SureSelect Binding Buffer        |  | No known significant effects or critical hazards.      |   |
| SureSelect Wash Buffer 1         |  | No known significant effects or critical hazards.      |   |
| SureSelect Wash Buffer 2         |  | No known significant effects or critical hazards.      |   |
| SureSelect Elution Buffer        |  | No known significant effects or critical hazards.      |   |
| SureSelect Neutralization Buffer |  | No known significant effects or critical hazards.      |   |
| <b>Developmental effects</b>     |  | : <input checked="" type="checkbox"/> SureSelect Hyb 1 | No known significant effects or critical hazards. |
|                                  |  | SureSelect Hyb 2                                       | No known significant effects or critical hazards. |
|                                  | SureSelect Hyb 4                                       | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Binding Buffer                              | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Wash Buffer 1                               | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Wash Buffer 2                               | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Elution Buffer                              | No known significant effects or critical hazards.      |   |
|                                  | SureSelect Neutralization Buffer                       | No known significant effects or critical hazards.      |   |

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## SECTION 11: Toxicological information

|                          |                                  |   |
|--------------------------|----------------------------------|---|
| <b>Fertility effects</b> | : SureSelect Hyb 1               | No known significant effects or critical hazards. |
|                          | SureSelect Hyb 2                 | No known significant effects or critical hazards. |
|                          | SureSelect Hyb 4                 | No known significant effects or critical hazards. |
|                          | SureSelect Binding Buffer        | No known significant effects or critical hazards. |
|                          | SureSelect Wash Buffer 1         | No known significant effects or critical hazards. |
|                          | SureSelect Wash Buffer 2         | No known significant effects or critical hazards. |
|                          | SureSelect Elution Buffer        | No known significant effects or critical hazards. |
|                          | SureSelect Neutralization Buffer | No known significant effects or critical hazards. |

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name   | Result                              | Species   | Exposure |
|---|-------------------------------------|---|----------|
| SureSelect Hyb 1<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 IC50 6.87 g/L Fresh water     | Aquatic plants - Lemna minor  | 96 hours |
|   | Acute LC50 1.56 g/L Fresh water     | Daphnia - Daphnia magna   | 48 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 |
| SureSelect Hyb 2<br>Disodium dihydrogen ethylenediaminetetraacetate | 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  |
|   | Acute LC50 320 mg/l Fresh water     | Fish  | 96 hours |
| SureSelect 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 IC50 6.87 g/L Fresh water     | Aquatic plants - Lemna minor  | 96 hours |
|   | Acute LC50 1.56 g/L Fresh water     | Daphnia - Daphnia magna   | 48 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

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## SECTION 12: Ecological information

| Product/ingredient name  | LogP <sub>ow</sub> | BCF | Potential |
|--|--------------------|-----|-----------|
| SureSelect Hyb 2<br>Disodium dihydrogen<br>ethylenediaminetetraacetate | -4.3               | 1.8 | low       |

### 12.4 Mobility in soil

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

Mobility : Not available.

### 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

#### 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** : The classification of the product may meet the criteria for a hazardous waste.

#### 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. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## 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

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

|   |   |                 |
|---|---|-----------------|
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | <b>SureSelect Hyb 1</b>                 | Not applicable. |
|   | <b>SureSelect Hyb 2</b>                 | Not applicable. |
|   | <b>SureSelect Hyb 4</b>                 | Not applicable. |
|   | <b>SureSelect Binding Buffer</b>        | Not applicable. |
|   | <b>SureSelect Wash Buffer 1</b>         | Not applicable. |
|   | <b>SureSelect Wash Buffer 2</b>         | Not applicable. |
|   | <b>SureSelect Elution Buffer</b>        | Not applicable. |
|   | <b>SureSelect Neutralization Buffer</b> | 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

|                          |  |
|--------------------------|--|
| <b>Australia</b>         | : <input checked="" type="checkbox"/> Not determined.  |
| <b>Canada</b>            | : <input checked="" type="checkbox"/> Not determined.  |
| <b>China</b>             | : <input checked="" type="checkbox"/> Not determined.  |
| <b>Europe</b>            | : <input checked="" type="checkbox"/> Not determined.  |
| <b>Japan</b>             | : <input checked="" type="checkbox"/> <b>Japan inventory (ENCS):</b> Not determined.<br><b>Japan inventory (ISHL):</b> Not determined. |
| <b>Malaysia</b>          | : Not determined.  |
| <b>New Zealand</b>       | : <input checked="" type="checkbox"/> Not determined.  |
| <b>Philippines</b>       | : <input checked="" type="checkbox"/> Not determined.  |
| <b>Republic of Korea</b> | : <input checked="" type="checkbox"/> Not determined.  |
| <b>Taiwan</b>            | : <input checked="" type="checkbox"/> Not determined.  |
| <b>Thailand</b>          | : <input checked="" type="checkbox"/> Not determined.  |

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## SECTION 15: Regulatory information

**Turkey** : Not determined.  
**United States** :  Not determined.  
**Viet Nam** :  Not determined.

**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]

| Classification   | Justification                            |
|--|--|
| <input checked="" type="checkbox"/> <b>SureSelect Hyb 1</b><br>Eye Irrit. 2, H319    | Calculation method                       |
| <b>SureSelect Neutralization Buffer</b><br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 | Calculation method<br>Calculation method |

### Full text of abbreviated H statements

|   |   |
|---|---|
| <input checked="" type="checkbox"/> <b>SureSelect Hyb 1</b><br>H319             | Causes serious eye irritation.  |
| <b>SureSelect Hyb 2</b><br>H302   | Harmful if swallowed.   |
| <b>SureSelect Hyb 4</b><br>H302<br>H315<br>H319<br>H332<br>H335<br>H400<br>H412 | Harmful if swallowed.<br>Causes skin irritation.<br>Causes serious eye irritation.<br>Harmful if inhaled.<br>May cause respiratory irritation.<br>Very toxic to aquatic life.<br>Harmful to aquatic life with long lasting effects. |
| <b>SureSelect Binding Buffer</b><br>H319  | Causes serious eye irritation.  |
| <b>SureSelect Neutralization Buffer</b><br>H315<br>H319<br>H335                 | Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.  |

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

**SureSelect Target Enrichment-Box 1, Part Number 5190-4393**

**SECTION 16: Other information**

|   |  |
|---|--|
| <p><b>SureSelect Hyb 1</b><br/>Eye Irrit. 2, H319</p>   | <p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</p>  |
| <p><b>SureSelect Hyb 2</b><br/>Acute Tox. 4, H302</p>   | <p>ACUTE TOXICITY (oral) - Category 4</p>  |
| <p><b>SureSelect Hyb 4</b><br/>Acute Tox. 4, H302<br/>Acute Tox. 4, H332<br/>Aquatic Acute 1, H400<br/>Aquatic Chronic 3, H412<br/>Eye Irrit. 2, H319<br/>Skin Irrit. 2, H315<br/>STOT SE 3, H335</p> | <p>ACUTE TOXICITY (oral) - Category 4<br/>ACUTE TOXICITY (inhalation) - Category 4<br/>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1<br/>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3<br/>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br/>SKIN CORROSION/IRRITATION - Category 2<br/>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3</p> |
| <p><b>SureSelect Binding Buffer</b><br/>Eye Irrit. 2, H319</p>  | <p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</p>  |
| <p><b>SureSelect Neutralization Buffer</b><br/>Eye Irrit. 2, H319<br/>Skin Irrit. 2, H315<br/>STOT SE 3, H335</p>   | <p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br/>SKIN CORROSION/IRRITATION - Category 2<br/>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3</p>  |

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