Section 1. Identification

1.1 Product identifier

Product name: SureSelect XT HS Reagent Kit with indexes 1-32, 96 reactions, Part Number G9702C

Part no. (chemical kit): G9702C

Material uses:
- Analytical reagent.
- For Research Use Only. Not for use in diagnostic procedures.

End Repair-A Tailing Enzyme Mix: 0.512 ml (96 reactions)
End Repair-A Tailing Buffer: 2.048 ml (96 reactions)
T4 DNA Ligase: 0.256 ml (96 reactions)
Ligation Buffer: 2.944 ml (96 reactions)
Adaptor Oligo Mix: 0.64 ml (96 reactions)
Forward Primer: 0.256 ml (96 reactions)
100 mM dNTP Mix (25 mM each dNTP): 0.1 ml
Herculase II Fusion DNA Polymerase: 0.128 ml (96 reactions)
5X Herculase II Reaction Buffer: 1.5 ml
SureSelect Binding Buffer: 93 ml
SureSelect Wash Buffer 1: 48 ml
SureSelect Wash Buffer 2: 144 ml

Validation date: 10/10/2018

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

Material uses:
- Analytical reagent.
- For Research Use Only. Not for use in diagnostic procedures.

End Repair-A Tailing Enzyme Mix: 0.512 ml (96 reactions)
End Repair-A Tailing Buffer: 2.048 ml (96 reactions)
T4 DNA Ligase: 0.256 ml (96 reactions)
Ligation Buffer: 2.944 ml (96 reactions)
Adaptor Oligo Mix: 0.64 ml (96 reactions)
Forward Primer: 0.256 ml (96 reactions)
100 mM dNTP Mix (25 mM each dNTP): 0.1 ml
Herculase II Fusion DNA Polymerase: 0.128 ml (96 reactions)
5X Herculase II Reaction Buffer: 1.5 ml
SureSelect Binding Buffer: 93 ml
SureSelect Wash Buffer 1: 48 ml
SureSelect Wash Buffer 2: 144 ml

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SureSelect XT HS and XT Low Input Blocker Mix
SureSelect Fast Hybridization Buffer
SureSelect RNase Block
SureSelect Post-Capture Primer Mix
SureSelect XT HS Index Primer A01-H04

0.64 ml (96 reactions)
0.77 ml
0.08 ml
0.128 ml (96 reactions)
96 x 0.01 ml (96 reactions)

1.3 Details of the supplier of the safety data sheet
Supplier/Manufacturer: Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number
In case of emergency: CHEMTREC®: 1-800-424-9300

Note *
A kit containing Agilent Part Number: 5500-0140, 5190-9876, 5190-9687, 5190-9686
*SureSelect XT HS Index Primer A01-H04: 5190-6419, 5190-6420, 5190-6421, 5190-6422,
5190-6423, 5190-6424, 5190-6425, 5190-6426, 5190-6427, 5190-6428, 5190-6429, 5190-6430,
5190-6431, 5190-6432, 5190-6433, 5190-6434, 5190-9740, 5190-9741, 5190-9742, 5190-9743,
5190-9744, 5190-9745, 5190-9746, 5190-9747, 5190-9748, 5190-9749, 5190-9750, 5190-9751,
5190-9752, 5190-9753, 5190-9754, 5190-9755

Section 2. Hazards identification

2.1 Classification of the substance or mixture

End Repair-A Tailing Enzyme Mix
End Repair-A Tailing Buffer
T4 DNA Ligase
Ligation Buffer
Adaptor Oligo Mix
Forward Primer
100 mM dNTP Mix (25 mM each dNTP)
Herculase II Fusion DNA Polymerase

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

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## Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Substance/Buffer</th>
<th>Classification and Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</td>
</tr>
</tbody>
</table>

**Classification of the substance or mixture**

- **End Repair-A Tailing Enzyme Mix**
  - H320: EYE IRRITATION - Category 2B

- **T4 DNA Ligase**
  - H320: EYE IRRITATION - Category 2B

- **Ligation Buffer**
  - H320: EYE IRRITATION - Category 2B
  - H335: SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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### Section 2. Hazards identification

**Herculase II Fusion DNA Polymerase**

- **H320**
  - **Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity:** 30 - 60%
  - **EYE IRRITATION - Category 2B**

**5X Herculase II Reaction Buffer**

- **H401**
  - **AQUATIC HAZARD (ACUTE) - Category 2**

**SureSelect RNase Block**

- **H320**
  - **Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity:** 30 - 60%
  - **EYE IRRITATION - Category 2B**

**Ingredients of unknown toxicity**

- **End Repair-A Tailing Enzyme Mix**
  - Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
- **End Repair-A Tailing 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: 1 - 10%
  - Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
- **T4 DNA Ligase**
  - Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
- **Ligation Buffer**
  - Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
- **100 mM dNTP Mix (25 mM each dNTP)**
  - 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: 1 - 10%
  - Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
- **Herculase II Fusion DNA Polymerase**
  - Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
- **5X Herculase II Reaction 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: 1 - 10%
  - Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
- **SureSelect Binding Buffer**
  - Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
- **SureSelect Fast Hybridization 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: 30 - 60%
  - Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
- **SureSelect RNase Block**
  - Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
- **End Repair-A Tailing Buffer**
  - Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
- **100 mM dNTP Mix (25 mM each dNTP)**
  - Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.7%
  - Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.4%
  - Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%

**2.2 GHS label elements**

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Section 2. Hazards identification

Hazard pictograms: Ligation Buffer

Signal word:
- End Repair-A Tailing Enzyme Mix: Warning
- End Repair-A Tailing Buffer: No signal word.
- T4 DNA Ligase: Warning
- Ligation Buffer: Warning
- Adaptor Oligo Mix: No signal word.
- Forward Primer: No signal word.
- 100 mM dNTP Mix (25 mM each dNTP): No signal word.
- Herculase II Fusion DNA Polymerase: Warning
- 5X Herculase II Reaction Buffer: No signal word.
- SureSelect Binding Buffer: No signal word.
- SureSelect Wash Buffer 1: No signal word.
- SureSelect Wash Buffer 2: No signal word.
- SureSelect XT HS and XT Low Input Blocker Mix: No signal word.
- SureSelect Fast Hybridization Buffer: No signal word.
- SureSelect RNase Block: Warning
- SureSelect Post-Capture Primer Mix: No signal word.
- SureSelect XT HS Index Primer A01-H04: No signal word.

Hazard statements:
- End Repair-A Tailing Enzyme Mix: H320 - Causes eye irritation.
- End Repair-A Tailing Buffer: No known significant effects or critical hazards.
- T4 DNA Ligase: H320 - Causes eye irritation.
- Ligation Buffer: H320 - Causes eye irritation.
- Adaptor Oligo Mix: No known significant effects or critical hazards.
- Forward Primer: No known significant effects or critical hazards.
- 100 mM dNTP Mix (25 mM each dNTP): No known significant effects or critical hazards.
- Herculase II Fusion DNA Polymerase: H320 - Causes eye irritation.
- 5X Herculase II Reaction Buffer: H401 - Toxic to aquatic life.
- 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 XT HS and XT Low Input Blocker Mix: No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer: No known significant effects or critical hazards.
- SureSelect RNase Block: H320 - Causes eye irritation.
- SureSelect Post-Capture Primer Mix: No known significant effects or critical hazards.
- SureSelect XT HS Index Primer A01-H04: No known significant effects or critical hazards.

Precautionary statements

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## Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>End Repair-A Tailing Enzyme Mix</strong></td>
<td><strong>End Repair-A Tailing Enzyme Mix</strong></td>
</tr>
<tr>
<td><strong>End Repair-A Tailing Buffer</strong></td>
<td><strong>End Repair-A Tailing Buffer</strong></td>
</tr>
<tr>
<td><strong>T4 DNA Ligase</strong></td>
<td><strong>T4 DNA Ligase</strong></td>
</tr>
<tr>
<td><strong>Ligation Buffer</strong></td>
<td><strong>Ligation Buffer</strong></td>
</tr>
<tr>
<td><strong>Adaptor Oligo Mix</strong></td>
<td><strong>Adaptor Oligo Mix</strong></td>
</tr>
<tr>
<td><strong>Forward Primer</strong></td>
<td><strong>Forward Primer</strong></td>
</tr>
<tr>
<td><strong>100 mM dNTP Mix (25 mM each dNTP)</strong></td>
<td><strong>100 mM dNTP Mix (25 mM each dNTP)</strong></td>
</tr>
<tr>
<td><strong>Herculase II Fusion DNA Polymerase</strong></td>
<td><strong>Herculase II Fusion DNA Polymerase</strong></td>
</tr>
<tr>
<td><strong>5X Herculase II Reaction Buffer</strong></td>
<td><strong>5X Herculase II Reaction Buffer</strong></td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td><strong>SureSelect Binding Buffer</strong></td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 1</strong></td>
<td><strong>SureSelect Wash Buffer 1</strong></td>
</tr>
<tr>
<td><strong>SureSelect Wash Buffer 2</strong></td>
<td><strong>SureSelect Wash Buffer 2</strong></td>
</tr>
<tr>
<td><strong>SureSelect XT HS and XT Low Input Blocker Mix</strong></td>
<td><strong>SureSelect XT HS and XT Low Input Blocker Mix</strong></td>
</tr>
<tr>
<td><strong>SureSelect Fast Hybridization Buffer</strong></td>
<td><strong>SureSelect Fast Hybridization Buffer</strong></td>
</tr>
<tr>
<td><strong>SureSelect RNase Block</strong></td>
<td><strong>SureSelect RNase Block</strong></td>
</tr>
<tr>
<td><strong>SureSelect Post-Capture Primer Mix</strong></td>
<td><strong>SureSelect Post-Capture Primer Mix</strong></td>
</tr>
<tr>
<td><strong>SureSelect XT HS Index Primer A01-H04</strong></td>
<td><strong>SureSelect XT HS Index Primer A01-H04</strong></td>
</tr>
</tbody>
</table>

**Prevention:**
- P264 - Wash hands thoroughly after handling.
- Not applicable.
- P264 - Wash hands thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P261 - Avoid breathing vapor.
- P264 - Wash hands thoroughly after handling.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicalbe.

**Response:**
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 - If eye irritation persists: Get medical attention.
- Not applicable.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 - If eye irritation persists: Get medical attention.
- P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 - If eye irritation persists: Get medical attention.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
- Not applicable.
### Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Item</th>
<th>Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td></td>
</tr>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>P405 - Store locked up.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Disposal</strong></td>
<td></td>
</tr>
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<td>End Repair-A Tailing Enzyme Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
Section 2. Hazards identification

SureSelect Wash Buffer 2
Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix
Not applicable.
SureSelect Fast Hybridization Buffer
Not applicable.
SureSelect RNase Block
Not applicable.
SureSelect Post-Capture Primer Mix
Not applicable.
SureSelect XT HS Index Primer A01-H04
Not applicable.

Supplemental label elements:
- End Repair-A Tailing Enzyme Mix: None known.
- End Repair-A Tailing Buffer: None known.
- T4 DNA Ligase: None known.
- Ligation Buffer: None known.
- Adaptor Oligo Mix: None known.
- Forward Primer: None known.
- 100 mM dNTP Mix (25 mM each dNTP): None known.
- Herculase II Fusion DNA Polymerase: None known.
- 5X Herculase II Reaction Buffer: None known.
- SureSelect Binding Buffer: None known.
- SureSelect Wash Buffer 1: None known.
- SureSelect Wash Buffer 2: None known.
- SureSelect XT HS and XT Low Input Blocker Mix: None known.
- SureSelect Fast Hybridization Buffer: None known.
- SureSelect RNase Block: None known.
- SureSelect Post-Capture Primer Mix: None known.
- SureSelect XT HS Index Primer A01-H04: None known.

2.3 Other hazards

Hazard not otherwise classified:
- End Repair-A Tailing Enzyme Mix: None known.
- End Repair-A Tailing Buffer: None known.
- T4 DNA Ligase: None known.
- Ligation Buffer: None known.
- Adaptor Oligo Mix: None known.
- Forward Primer: None known.
- 100 mM dNTP Mix (25 mM each dNTP): None known.
- Herculase II Fusion DNA Polymerase: None known.
- 5X Herculase II Reaction Buffer: None known.
- SureSelect Binding Buffer: None known.
- SureSelect Wash Buffer 1: None known.
- SureSelect Wash Buffer 2: None known.
- SureSelect XT HS and XT Low Input Blocker Mix: None known.
- SureSelect Fast Hybridization Buffer: None known.
- SureSelect RNase Block: None known.
- SureSelect Post-Capture Primer Mix: None known.
- SureSelect XT HS Index Primer A01-H04: None known.
### Substance/mixture:

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>\textbf{Glycerol}</td>
<td>\textbf{≥50 - ≤75}</td>
<td>56-81-5</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>≤3</td>
<td>1185-53-1</td>
</tr>
<tr>
<td></td>
<td>Potassium chloride</td>
<td>≤3</td>
<td>7447-40-7</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>\textbf{Glycerol}</td>
<td>\textbf{≥50 - ≤75}</td>
<td>56-81-5</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Polyethylene glycol</td>
<td>≥10 - ≤25</td>
<td>25322-68-3</td>
</tr>
<tr>
<td></td>
<td>\textbf{Glycerol}</td>
<td>≥10 - ≤25</td>
<td>56-81-5</td>
</tr>
<tr>
<td>Herculease II Fusion DNA Polymerase</td>
<td>\textbf{Glycerol}</td>
<td>\textbf{≥50 - ≤75}</td>
<td>56-81-5</td>
</tr>
<tr>
<td>5X Herculease II Reaction Buffer</td>
<td>Trometamol</td>
<td>≤3</td>
<td>77-86-1</td>
</tr>
<tr>
<td></td>
<td>Ammonium sulphate</td>
<td>&lt;2.5</td>
<td>7783-20-2</td>
</tr>
<tr>
<td></td>
<td>Hexadecan-1-ol, ethoxylated</td>
<td>≤3</td>
<td>9004-95-9</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Sodium chloride</td>
<td>&lt;10</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>≤3</td>
<td>1185-53-1</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>\textbf{Glycerol}</td>
<td>\textbf{≥50 - ≤75}</td>
<td>56-81-5</td>
</tr>
</tbody>
</table>

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

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

**Date of issue:** 10/10/2018
Section 3. Composition/information on ingredients

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Ingredient</th>
<th>First aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.</td>
<td></td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.</td>
<td></td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
<td></td>
</tr>
</tbody>
</table>
Section 4. First aid measures

<table>
<thead>
<tr>
<th>Material</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Blocker Mix</td>
<td>Occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
</tbody>
</table>

**Inhalation**: End Repair-A Tailing Enzyme Mix

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.

End Repair-A Tailing Buffer

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

T4 DNA Ligase

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.

Ligation Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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
<table>
<thead>
<tr>
<th>Product</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not 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.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Item Name</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>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 products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>End Repair-A Tailing Enzyme Mix</td>
</tr>
<tr>
<td></td>
<td>End Repair-A Tailing Buffer</td>
</tr>
<tr>
<td></td>
<td>T4 DNA Ligase</td>
</tr>
<tr>
<td></td>
<td>Ligation Buffer</td>
</tr>
<tr>
<td></td>
<td>Adaptor Oligo Mix</td>
</tr>
<tr>
<td></td>
<td>Forward Primer</td>
</tr>
<tr>
<td></td>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
</tr>
<tr>
<td></td>
<td>Herculase II Fusion DNA Polymerase</td>
</tr>
<tr>
<td></td>
<td>5X Herculase II Reaction Buffer</td>
</tr>
</tbody>
</table>
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Product Name</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td><strong>End Repair-A Tailing Enzyme Mix</strong></td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>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.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>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 occurs.</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

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.

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

Adaptor Oligo Mix
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.

Forward Primer
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.

100 mM dNTP Mix (25 mM each dNTP)
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.

Herculase II Fusion DNA Polymerase
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.
## Section 4. First aid measures

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.

### 5X Herculase II Reaction 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. 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 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 XT HS and XT Low Input Blocker Mix
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 Fast Hybridization 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 RNase Block
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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Section 4. First aid measures

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 Post-Capture Primer Mix
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 XT HS Index Primer A01-H04
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>End Repair-A Tailing Enzyme Mix</th>
<th>Causes eye irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>End Repair-A Tailing Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>T4 DNA Ligase</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td></td>
<td>Ligation Buffer</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td></td>
<td>Adaptor Oligo Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Forward Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td></td>
<td>5X Herculase II Reaction Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect RNase Block</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Section 4. First aid measures</td>
<td>Inhalation</td>
<td>Skin contact</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>End Repair-A Tailing Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>T4 DNA Ligase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Ligation Buffer</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td></td>
<td>Adaptor Oligo Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Forward Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Herculase II Fusion DNA Polymerase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>5X Herculase II Reaction Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
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<tr>
<td></td>
<td>SureSelect RNase Block</td>
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<tr>
<td></td>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
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<tr>
<td></td>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>End Repair-A Tailing Buffer</td>
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<tr>
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<td>T4 DNA Ligase</td>
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<td></td>
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<td></td>
<td>SureSelect Binding Buffer</td>
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<tr>
<td></td>
<td>SureSelect Wash Buffer 1</td>
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<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
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<td></td>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
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</tr>
<tr>
<td></td>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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# Section 4. First aid measures

<table>
<thead>
<tr>
<th>SureSelect Wash Buffer 2</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Over-exposure signs/symptoms**

### Eye contact

- **End Repair-A Tailing Enzyme Mix**: Adverse symptoms may include the following: irritation, watering, redness.
- **End Repair-A Tailing Buffer**: No specific data.
- **T4 DNA Ligase**: Adverse symptoms may include the following: irritation, watering, redness.
- **Ligation Buffer**: Adverse symptoms may include the following: irritation, watering, redness.
- **Adaptor Oligo Mix**: No specific data.
- **Forward Primer**: No specific data.
- **100 mM dNTP Mix (25 mM each dNTP)**: No specific data.
- **Herculase II Fusion DNA Polymerase**: Adverse symptoms may include the following: irritation, watering, redness.
- **5X Herculase II Reaction Buffer**: No specific data.
- **SureSelect Binding Buffer**: No specific data.
- **SureSelect Wash Buffer 1**: No specific data.
- **SureSelect Wash Buffer 2**: No specific data.
- **SureSelect XT HS and XT Low Input Blocker Mix**: No specific data.
- **SureSelect Fast Hybridization Buffer**: No specific data.
- **SureSelect RNase Block**: Adverse symptoms may include the following: irritation, watering, redness.
- **SureSelect Post-Capture Primer Mix**: No specific data.
- **SureSelect XT HS Index Primer A01-H04**: No specific data.

### Inhalation

- **End Repair-A Tailing Enzyme Mix**: No specific data.
- **End Repair-A Tailing Buffer**: No specific data.
- **T4 DNA Ligase**: No specific data.
- **Ligation Buffer**: Adverse symptoms may include the following: respiratory tract irritation, coughing.
- **Adaptor Oligo Mix**: No specific data.
- **Forward Primer**: No specific data.
- **100 mM dNTP Mix (25 mM each dNTP)**: No specific data.

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Skin contact

- dNTP
- Herculase II Fusion DNA Polymerase
- 5X Herculase II Reaction Buffer
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
- SureSelect XT HS and XT Low Input Blocker Mix
- SureSelect Fast Hybridization Buffer
- SureSelect RNase Block
- SureSelect Post-Capture Primer Mix
- SureSelect XT HS Index Primer A01-H04
- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer
- Adaptor Oligo Mix
- Forward Primer
- 100 mM dNTP Mix (25 mM each dNTP)

Ingestion

- dNTP
- Herculase II Fusion DNA Polymerase
- 5X Herculase II Reaction Buffer
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
- SureSelect XT HS and XT Low Input Blocker Mix
- SureSelect Fast Hybridization Buffer
- SureSelect RNase Block
- SureSelect Post-Capture Primer Mix
- SureSelect XT HS Index Primer A01-H04
- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer
- Adaptor Oligo Mix
- Forward Primer
- 100 mM dNTP Mix (25 mM each dNTP)
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Notes to physician</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>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.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>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.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

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Section 4. First aid measures

- **Specific treatments**: No specific treatment.
- **Protection of first-aiders**: 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.

  - End Repair-A Tailing Enzyme Mix
  - End Repair-A Tailing Buffer
  - T4 DNA Ligase
  - Ligation Buffer
  - Adaptor Oligo Mix
  - Forward Primer
  - 100 mM dNTP Mix (25 mM each dNTP)
  - Herculase II Fusion DNA Polymerase
  - 5X Herculase II Reaction Buffer
  - SureSelect Binding Buffer
  - SureSelect Wash Buffer 1
  - SureSelect Wash Buffer 2
  - SureSelect XT HS and XT Low Input Blocker Mix
  - SureSelect Fast Hybridization Buffer
  - SureSelect RNase Block
  - SureSelect Post-Capture Primer Mix
  - SureSelect XT HS Index Primer A01-H04

  - A01-H04: specialist immediately if large quantities have been ingested or inhaled.

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### Section 4. First aid measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media**

- End Repair-A Tailing Enzyme Mix: Use an extinguishing agent suitable for the surrounding fire.
- End Repair-A Tailing Buffer: Use an extinguishing agent suitable for the surrounding fire.
- T4 DNA Ligase: Use an extinguishing agent suitable for the surrounding fire.
- Ligation Buffer: Use an extinguishing agent suitable for the surrounding fire.
- Adaptor Oligo Mix: Use an extinguishing agent suitable for the surrounding fire.
- Forward Primer: Use an extinguishing agent suitable for the surrounding fire.
- 100 mM dNTP Mix (25 mM each dNTP): Use an extinguishing agent suitable for the surrounding fire.
- Herculase II Fusion DNA Polymerase: Use an extinguishing agent suitable for the surrounding fire.
- 5X Herculase II Reaction Buffer: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect Binding Buffer: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect Wash Buffer 1: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect Wash Buffer 2: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect XT HS and XT Low Input Blocker Mix: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect Fast Hybridization Buffer: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect RNase Block: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect Post-Capture Primer Mix: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect XT HS Index Primer A01-H04: Use an extinguishing agent suitable for the surrounding fire.
Section 5. Fire-fighting measures

Unsuitable extinguishing media:
- End Repair-A Tailing Enzyme Mix: None known.
- End Repair-A Tailing Buffer: None known.
- T4 DNA Ligase: None known.
- Ligation Buffer: None known.
- Adaptor Oligo Mix: None known.
- Forward Primer: None known.
- 100 mM dNTP Mix (25 mM each dNTP): None known.
- Herculase II Fusion DNA Polymerase: None known.
- 5X Herculase II Reaction Buffer: None known.
- SureSelect Binding Buffer: None known.
- SureSelect Wash Buffer 1: None known.
- SureSelect Wash Buffer 2: None known.
- SureSelect XT HS and XT Low Input Blocker Mix: None known.
- SureSelect Fast Hybridization Buffer: None known.
- SureSelect RNase Block: None known.
- SureSelect Post-Capture Primer Mix: None known.
- SureSelect XT HS Index Primer A01-H04: None known.

Specific hazards arising from the chemical:
- End Repair-A Tailing Enzyme Mix: In a fire or if heated, a pressure increase will occur and the container may burst.
- End Repair-A Tailing Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.
- T4 DNA Ligase: In a fire or if heated, a pressure increase will occur and the container may burst.
- Ligation Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.
- Adaptor Oligo Mix: In a fire or if heated, a pressure increase will occur and the container may burst.
- Forward Primer: In a fire or if heated, a pressure increase will occur and the container may burst.
- 100 mM dNTP Mix (25 mM each dNTP): In a fire or if heated, a pressure increase will occur and the container may burst.
- Herculase II Fusion DNA Polymerase: In a fire or if heated, a pressure increase will occur and the container may burst.
- 5X Herculase II Reaction Buffer: 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 XT HS and XT Low Input Blocker Mix: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect Fast Hybridization Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect RNase Block: In a fire or if heated, a pressure increase will occur and the container may burst.
## Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Decomposition Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>No specific data.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, carbon monoxide.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Decomposition products may include the following materials: halogenated compounds, metal oxide/oxides.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds, metal oxide/oxides.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Decomposition products may include the following materials:</td>
</tr>
</tbody>
</table>

In a fire or if heated, a pressure increase will occur and the container may burst.
### Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Material</th>
<th>Special protective actions for fire-fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No specific data.</td>
</tr>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

**5.3 Advice for firefighters**

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### Section 5. Fire-fighting measures

SureSelect Fast Hybridization 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 RNase Block  
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 Post-Capture Primer Mix  
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 XT HS Index Primer A01-H04  
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.

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>End Repair-A Tailing Enzyme Mix</th>
<th>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>
## Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Fire-fighting Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>

## Section 6. Accidental release measures

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

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

Adaptor Oligo Mix

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Forward Primer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

100 mM dNTP Mix (25 mM each dNTP)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Herculase II Fusion DNA Polymerase

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

5X Herculase II Reaction Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled 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 spilled 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 spilled material. Put on appropriate personal protective equipment.
## Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
</tbody>
</table>

**For emergency responders:**

- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer
- Adaptor Oligo Mix
- Forward Primer
- 100 mM dNTP Mix (25 mM each dNTP)
Section 6. Accidental release measures

6.2 Environmental precautions

- **End Repair-A Tailing Enzyme Mix**
  - Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
  - Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

- **End Repair-A Tailing Buffer**
  - Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
  - Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

- **T4 DNA Ligase**
  - Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
  - Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
## Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Item</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ligation Buffer</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</td>
</tr>
</tbody>
</table>
## Section 6. Accidental release measures

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### SureSelect Post-Capture Primer Mix
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### SureSelect XT HS Index Primer A01-H04
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

#### Methods for cleaning up

- **End Repair-A Tailing Enzyme Mix**: 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.
- **End Repair-A Tailing 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.
- **T4 DNA Ligase**: 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.
- **Ligation 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.
- **Adaptor Oligo Mix**: 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.
- **Forward Primer**: 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.
- **100 mM dNTP Mix (25 mM each dNTP)**: 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.
- **Herculase II Fusion DNA**: Stop leak if without risk. Move containers from spill area.
## Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Action Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT HS Reagent Kit with indexes 1-32, 96 reactions, Part Number G9702C</td>
<td>Accidental release measures are: stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>Polymerase area.</td>
<td>DIlute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
</tbody>
</table>
Section 7. Handling and storage

7.1 Precautions for safe handling

<table>
<thead>
<tr>
<th>Protective measures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>
### Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Material</th>
<th>Advice on general occupational hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
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</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each)</td>
<td>Eating, drinking and smoking should be prohibited</td>
</tr>
</tbody>
</table>
### Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Product</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT HS Reagent Kit with indexes 1-32, 96 reactions, Part Number G9702C</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>dNTP)</td>
<td>in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
</tbody>
</table>
## Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Product</th>
<th>Conditions for safe storage, including any incompatibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
</tbody>
</table>
| Ligation Buffer                             | Storage temperature: -80°C (-112°F). Store in
Section 7. Handling and storage

Adaptor Oligo Mix
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Forward Primer
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

100 mM dNTP Mix (25 mM each dNTP)
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Herculase II Fusion DNA Polymerase
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
# Section 7. Handling and storage

5X Herculase II Reaction Buffer  
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect Binding Buffer  
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect Wash Buffer 1  
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect Wash Buffer 2  
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect XT HS and XT Low Input Blocker Mix  
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year.
<table>
<thead>
<tr>
<th>Product</th>
<th>Storage Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
</tbody>
</table>
# Section 7. Handling and storage

## 7.3 Specific end use(s)

### Recommendations

<table>
<thead>
<tr>
<th>Item</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Industrial applications, Professional applications.</td>
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### Industrial sector specific solutions

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Not applicable.</td>
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</tbody>
</table>
**Section 8. Exposure controls/personal protection**

### 8.1 Control parameters

#### Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>End Repair-A Tailing Enzyme Mix</strong></td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Glycerol</td>
<td>None.</td>
</tr>
<tr>
<td><strong>End Repair-A Tailing Buffer</strong></td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>None.</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>None.</td>
</tr>
<tr>
<td><strong>T4 DNA Ligase</strong></td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Glycerol</td>
<td>None.</td>
</tr>
<tr>
<td><strong>Ligation Buffer</strong></td>
<td>AIHA WEEL (United States, 10/2011). TWA: 10 mg/m³ 8 hours. Form: Aerosol</td>
</tr>
<tr>
<td>Polyethylene glycol</td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Glycerol</td>
<td>OSHA PEL (United States, 6/2016). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td><strong>Herculase II Fusion DNA Polymerase</strong></td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Glycerol</td>
<td>None.</td>
</tr>
<tr>
<td><strong>5X Herculase II Reaction Buffer</strong></td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Trometamol</td>
<td>None.</td>
</tr>
<tr>
<td>Ammonium sulphate</td>
<td>OSHA PEL (United States, 6/2016). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Hexadecan-1-ol, ethoxylated</td>
<td>None.</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>None.</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>None.</td>
</tr>
</tbody>
</table>

**Date of issue:** 10/10/2018
Section 8. Exposure controls/personal protection

### 8.2 Exposure controls

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

**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.

**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.

Date of issue: 10/10/2018
### Section 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**Appearance**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>9.1 Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Liquid.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Liquid.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Liquid.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Polymerase</td>
<td>Liquid.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Liquid.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Liquid.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
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</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
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</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
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<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Liquid.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
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<tr>
<td>SureSelect Post-Capture Primer Mix</td>
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<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
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**Color**

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<th>9.1 Information on basic physical and chemical properties</th>
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<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
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<tr>
<td>Adaptor Oligo Mix</td>
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</tr>
<tr>
<td>Forward Primer</td>
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<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
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<tr>
<td>Herculase II Fusion DNA</td>
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</tr>
<tr>
<td>Polymerase</td>
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</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
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**Odor**

<table>
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<td>T4 DNA Ligase</td>
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</tr>
<tr>
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<tr>
<td>Adaptor Oligo Mix</td>
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</tr>
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<td>Forward Primer</td>
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<td>100 mM dNTP Mix (25 mM each dNTP)</td>
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**Date of issue**: 10/10/2018
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Item</th>
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<td>SureSelect RNase Block</td>
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<td>SureSelect Post-Capture Primer Mix</td>
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<td>T4 DNA Ligase</td>
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</tr>
<tr>
<td>Ligation Buffer</td>
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<tr>
<td>Adaptor Oligo Mix</td>
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<td>100 mM dNTP Mix (25 mM each dNTP)</td>
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</table>
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Component</th>
<th>Temperature</th>
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<tbody>
<tr>
<td><strong>Melting point</strong></td>
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<td></td>
<td>End Repair-A Tailing Buffer</td>
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</tr>
<tr>
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<td>T4 DNA Ligase</td>
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</tr>
<tr>
<td></td>
<td>Ligation Buffer</td>
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</tr>
<tr>
<td></td>
<td>Adaptor Oligo Mix</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td></td>
<td>Forward Primer</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td></td>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
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</tr>
<tr>
<td></td>
<td>Herculase II Fusion DNA Polymerase</td>
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</tr>
<tr>
<td></td>
<td>SureSelect Wash Buffer 2</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td></td>
<td>SureSelect Fast Hybridization Buffer</td>
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</tr>
<tr>
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<tr>
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<tr>
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<tr>
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<tr>
<td></td>
<td>5X Herculase II Reaction Buffer</td>
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<td>T4 DNA Ligase</td>
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<tr>
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<td>Ligation Buffer</td>
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<tr>
<td></td>
<td>Adaptor Oligo Mix</td>
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<td>Forward Primer</td>
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**Date of issue:** 10/10/2018
Section 9. Physical and chemical properties

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<td>SureSelect Post-Capture Primer Mix</td>
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<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
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**Evaporation rate**

<table>
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<td>End Repair-A Tailing Enzyme Mix</td>
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<tr>
<td>T4 DNA Ligase</td>
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<tr>
<td>Ligation Buffer</td>
<td>Not available.</td>
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<tr>
<td>Adaptor Oligo Mix</td>
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</tr>
<tr>
<td>Forward Primer</td>
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<tr>
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<tr>
<td>Herculase II Fusion DNA Polymerase</td>
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<tr>
<td>5X Herculase II Reaction Buffer</td>
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<tr>
<td>SureSelect Wash Buffer 1</td>
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<tr>
<td>SureSelect Wash Buffer 2</td>
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<tr>
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<tr>
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**Flammability (solid, gas)**

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<td>End Repair-A Tailing Buffer</td>
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<td>T4 DNA Ligase</td>
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</tr>
<tr>
<td>Ligation Buffer</td>
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<tr>
<td>Adaptor Oligo Mix</td>
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</tr>
<tr>
<td>Forward Primer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
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</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
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</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

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### Section 9. Physical and chemical properties

**Lower and upper explosive (flammable) limits**

- End Repair-A Tailing Enzyme Mix: Not available.
- End Repair-A Tailing Buffer: Not available.
- T4 DNA Ligase: Not available.
- Ligation Buffer: Not available.
- Adaptor Oligo Mix: Not available.
- Forward Primer: Not available.
- 100 mM dNTP Mix (25 mM each dNTP): Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- 5X Herculase II Reaction Buffer: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.
- SureSelect XT HS and XT Low Input Blocker Mix: Not available.
- SureSelect Fast Hybridization Buffer: Not available.
- SureSelect RNase Block: Not available.
- SureSelect Post-Capture Primer Mix: Not available.
- SureSelect XT HS Index Primer A01-H04: Not available.

**Vapor pressure**

- End Repair-A Tailing Enzyme Mix: Not available.
- End Repair-A Tailing Buffer: Not available.
- T4 DNA Ligase: Not available.
- Ligation Buffer: Not available.
- Adaptor Oligo Mix: Not available.
- Forward Primer: Not available.
- 100 mM dNTP Mix (25 mM each dNTP): Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- 5X Herculase II Reaction Buffer: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.
- SureSelect XT HS and XT Low Input Blocker Mix: Not available.
- SureSelect Fast Hybridization Buffer: Not available.
- SureSelect RNase Block: Not available.
- SureSelect Post-Capture Primer Mix: Not available.
- SureSelect XT HS Index Primer A01-H04: Not available.

**Vapor density**

- End Repair-A Tailing Enzyme Mix: Not available.
- End Repair-A Tailing Buffer: Not available.
- T4 DNA Ligase: Not available.
- Ligation Buffer: Not available.
- Adaptor Oligo Mix: Not available.
- Forward Primer: Not available.
- 100 mM dNTP Mix (25 mM each dNTP): Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- 5X Herculase II Reaction Buffer: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
## Section 9. Physical and chemical properties

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<th>Product</th>
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<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
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### Relative density
- End Repair-A Tailing Enzyme Mix Not available.
- End Repair-A Tailing Buffer Not available.
- T4 DNA Ligase Not available.
- Ligation Buffer Not available.
- Adaptor Oligo Mix Not available.
- Forward Primer Not available.
- 100 mM dNTP Mix (25 mM each dNTP) Not available.
- Herculase II Fusion DNA Polymerase Not available.
- 5X Herculase II Reaction Buffer Not available.
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 Not available.
- SureSelect Wash Buffer 2 Not available.
- SureSelect XT HS and XT Low Input Blocker Mix Not available.
- SureSelect Fast Hybridization Buffer Not available.
- SureSelect RNase Block Not available.
- SureSelect Post-Capture Primer Mix Not available.
- SureSelect XT HS Index Primer A01-H04 Not available.

### Solubility
- End Repair-A Tailing Enzyme Mix Easily soluble in the following materials: cold water and hot water.
- End Repair-A Tailing Buffer Easily soluble in the following materials: cold water and hot water.
- T4 DNA Ligase Easily soluble in the following materials: cold water and hot water.
- Ligation Buffer Soluble in the following materials: cold water and hot water.
- Adaptor Oligo Mix Easily soluble in the following materials: cold water and hot water.
- Forward Primer Easily soluble in the following materials: cold water and hot water.
- 100 mM dNTP Mix (25 mM each dNTP) Easily soluble in the following materials: cold water and hot water.
- Herculase II Fusion DNA Polymerase Soluble in the following materials: cold water and hot water.
- 5X Herculase II Reaction Buffer Easily soluble in the following materials: cold water and hot water.
- SureSelect Binding Buffer Easily soluble in the following materials: cold water and hot water.
- SureSelect Wash Buffer 1 Easily soluble in the following materials: cold water and hot water.
- SureSelect Wash Buffer 2 Easily soluble in the following materials: cold water and hot water.
- SureSelect XT HS and XT Low Input Blocker Mix Easily soluble in the following materials: cold water and hot water.
### Section 9. Physical and chemical properties

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<tr>
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<td>Ligation Buffer</td>
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<td>Adaptor Oligo Mix</td>
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<tr>
<td></td>
<td>Forward Primer</td>
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<tr>
<td></td>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
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<td>100 mM dNTP Mix (25 mM each dNTP)</td>
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**Date of issue:** 10/10/2018
Section 9. Physical and chemical properties

**Decomposition temperature:**
- End Repair-A Tailing Enzyme Mix: Not available.
- End Repair-A Tailing Buffer: Not available.
- T4 DNA Ligase: Not available.
- Ligation Buffer: Not available.
- Adaptor Oligo Mix: Not available.
- Forward Primer: Not available.
- 100 mM dNTP Mix (25 mM each dNTP): Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- 5X Herculase II Reaction Buffer: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.
- SureSelect XT HS and XT Low Input Blocker Mix: Not available.
- SureSelect Fast Hybridization Buffer: Not available.
- SureSelect RNase Block: Not available.
- SureSelect Post-Capture Primer Mix: Not available.
- SureSelect XT HS Index Primer A01-H04: Not available.

**Viscosity:**
- End Repair-A Tailing Enzyme Mix: Not available.
- End Repair-A Tailing Buffer: Not available.
- T4 DNA Ligase: Not available.
- Ligation Buffer: Not available.
- Adaptor Oligo Mix: Not available.
- Forward Primer: Not available.
- 100 mM dNTP Mix (25 mM each dNTP): Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- 5X Herculase II Reaction Buffer: Not available.
- SureSelect Binding Buffer: Not available.
- SureSelect Wash Buffer 1: Not available.
- SureSelect Wash Buffer 2: Not available.
- SureSelect XT HS and XT Low Input Blocker Mix: Not available.
- SureSelect Fast Hybridization Buffer: Not available.
- SureSelect RNase Block: Not available.
- SureSelect Post-Capture Primer Mix: Not available.
- SureSelect XT HS Index Primer A01-H04: Not available.

Section 10. Stability and reactivity

**10.1 Reactivity:**
- End Repair-A Tailing Enzyme Mix: No specific test data related to reactivity available for this product or its ingredients.
- End Repair-A Tailing Buffer: No specific test data related to reactivity available for this product or its ingredients.
- T4 DNA Ligase: No specific test data related to reactivity available for this product or its ingredients.
- Ligation Buffer: No specific test data related to reactivity available for this product or its ingredients.
- Adaptor Oligo Mix: No specific test data related to reactivity available for this product or its ingredients.
### Section 10. Stability and reactivity

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<tbody>
<tr>
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#### 10.2 Chemical stability

<table>
<thead>
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<th>Product</th>
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<tbody>
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<td>Forward Primer</td>
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<td>100 mM dNTP Mix (25 mM each dNTP)</td>
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<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
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<tr>
<td>5X Herculase II Reaction Buffer</td>
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<tr>
<td>SureSelect Binding Buffer</td>
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<td>SureSelect Wash Buffer 1</td>
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<tr>
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<td>SureSelect Fast Hybridization Buffer</td>
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<td>SureSelect RNase Block</td>
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<td>SureSelect Post-Capture Primer Mix</td>
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#### 10.3 Possibility of hazardous reactions

<table>
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<th>Product</th>
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</thead>
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<td>End Repair-A Tailing Enzyme Mix</td>
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<tr>
<td>End Repair-A Tailing Buffer</td>
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<tr>
<td>T4 DNA Ligase</td>
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<td>Ligation Buffer</td>
<td>The product is stable.</td>
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<tr>
<td>Adaptor Oligo Mix</td>
<td>The product is stable.</td>
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<tr>
<td>Forward Primer</td>
<td>The product is stable.</td>
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<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>The product is stable.</td>
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<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>The product is stable.</td>
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<td>SureSelect Wash Buffer 1</td>
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<tr>
<td>SureSelect Wash Buffer 2</td>
<td>The product is stable.</td>
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<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

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Section 10. Stability and reactivity

10.4 Conditions to avoid:

- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer
- Adaptor Oligo Mix
- Forward Primer
- 100 mM dNTP Mix (25 mM each dNTP)
- Herculase II Fusion DNA Polymerase
- 5X Herculase II Reaction Buffer
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
- SureSelect XT HS and XT Low Input Blocker Mix
- SureSelect Fast Hybridization Buffer
- SureSelect RNase Block
- SureSelect Post-Capture Primer Mix
- SureSelect XT HS Index Primer A01-H04

No specific data.

10.5 Incompatible materials:

- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer

May react or be incompatible with oxidizing materials.
### Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Item</th>
<th>Hazardous decomposition products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptor Oligo Mix</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
</tbody>
</table>

**10.6 Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

- **End Repair-A Tailing Enzyme Mix**
- **End Repair-A Tailing Buffer**
- **T4 DNA Ligase**
- **Ligation Buffer**
- **Adaptor Oligo Mix**
- **Forward Primer**
- **100 mM dNTP Mix (25 mM each dNTP)**
- **Herculase II Fusion DNA Polymerase**
- **5X Herculase II Reaction Buffer**
- **SureSelect Binding Buffer**
- **SureSelect Wash Buffer 1**
Section 10. Stability and reactivity

SureSelect Wash Buffer 2
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect XT HS and XT Low Input Blocker Mix
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect Fast Hybridization Buffer
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect RNase Block
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect Post-Capture Primer Mix
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect XT HS Index Primer A01-H04
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Potassium chloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Trometamol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Ammonium sulphate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2840 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Hexadecan-1-ol, ethoxylated</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2500 mg/kg</td>
<td></td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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## Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>End Repair-A Tailing Enzyme Mix</strong></td>
<td>Glycerol</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td><strong>End Repair-A Tailing Buffer</strong></td>
<td>Potassium chloride</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td><strong>T4 DNA Ligase</strong></td>
<td>Glycerol</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td><strong>Ligation Buffer</strong></td>
<td>Polyethylene glycol</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Glycerol</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td><strong>Herculase II Fusion DNA Polymerase</strong></td>
<td>Glycerol</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td><strong>5X Herculase II Reaction Buffer</strong></td>
<td>Trometamol</td>
<td>Rabbit</td>
<td>-</td>
<td>25 Percent 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td><strong>SureSelect Binding Buffer</strong></td>
<td>Sodium chloride</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td><strong>SureSelect RNase Block</strong></td>
<td>Glycerol</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

**Sensitization**
Not available.

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

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

**Reproductive toxicity**
Conclusion/Summary: Not available.

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Polyethylene glycol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Trometamol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexadecan-1-ol, ethoxylated</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Specific target organ toxicity (repeated exposure)**
Not available.

**Aspiration hazard**
Not available.

**Information on the likely routes of exposure**

<table>
<thead>
<tr>
<th>Name</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>Not available.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>Polymerase</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
## Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Potential acute health effects

#### Eye contact

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

#### Inhalation

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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## Section 11. Toxicological information

### Skin contact

<table>
<thead>
<tr>
<th>Item</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Ingestion

<table>
<thead>
<tr>
<th>Item</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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

#### Eye contact

<table>
<thead>
<tr>
<th>Item</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>Adverse symptoms may include the following: irritation, watering, redness</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>No specific data. Adverse symptoms may include the following: irritation, watering</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>Adverse symptoms may include the following: irritation, watering</td>
</tr>
</tbody>
</table>

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Inhalation

Ligation Buffer
Adverse symptoms may include the following:
- irritation
- watering
- redness

Adaptor Oligo Mix
No specific data.

Forward Primer
No specific data.

100 mM dNTP Mix (25 mM each dNTP)
No specific data.

Herculase II Fusion DNA Polymerase
Adverse symptoms may include the following:
- irritation
- watering
- redness

5X Herculase II Reaction Buffer
No specific data.

SureSelect Binding Buffer
No specific data.

SureSelect Wash Buffer 1
No specific data.

SureSelect Wash Buffer 2
No specific data.

SureSelect XT HS and XT Low Input Blocker Mix
No specific data.

SureSelect Fast Hybridization Buffer
No specific data.

SureSelect RNase Block
Adverse symptoms may include the following:
- irritation
- watering
- redness

SureSelect Post-Capture Primer Mix
No specific data.

SureSelect XT HS Index Primer A01-H04
No specific data.

End Repair-A Tailing Enzyme Mix
No specific data.

End Repair-A Tailing Buffer
No specific data.

T4 DNA Ligase
No specific data.

Ligation Buffer
Adverse symptoms may include the following:
- respiratory tract irritation
- coughing

Adaptor Oligo Mix
No specific data.

Forward Primer
No specific data.

100 mM dNTP Mix (25 mM each dNTP)
No specific data.

Herculase II Fusion DNA Polymerase
No specific data.

5X Herculase II Reaction Buffer
No specific data.

SureSelect Binding Buffer
No specific data.

SureSelect Wash Buffer 1
No specific data.

SureSelect Wash Buffer 2
No specific data.

SureSelect XT HS and XT Low Input Blocker Mix
No specific data.

SureSelect Fast Hybridization Buffer
No specific data.

SureSelect RNase Block
Adverse symptoms may include the following:
- irritation
- watering
- redness

SureSelect Post-Capture Primer Mix
No specific data.

SureSelect XT HS Index Primer A01-H04
No specific data.
Section 11. Toxicological information

**Skin contact**
- End Repair-A Tailing Enzyme Mix: No specific data.
- End Repair-A Tailing Buffer: No specific data.
- T4 DNA Ligase: No specific data.
- Ligation Buffer: No specific data.
- Adaptor Oligo Mix: No specific data.
- Forward Primer: No specific data.
- 100 mM dNTP Mix (25 mM each dNTP): No specific data.
- Herculase II Fusion DNA Polymerase: No specific data.
- 5X Herculase II Reaction Buffer: No specific data.
- SureSelect Binding Buffer: No specific data.
- SureSelect Wash Buffer 1: No specific data.
- SureSelect Wash Buffer 2: No specific data.
- SureSelect XT HS and XT Low Input Blocker Mix: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect RNase Block: No specific data.
- SureSelect Post-Capture Primer Mix: No specific data.
- SureSelect XT HS Index Primer A01-H04: No specific data.

**Ingestion**
- End Repair-A Tailing Enzyme Mix: No specific data.
- End Repair-A Tailing Buffer: No specific data.
- T4 DNA Ligase: No specific data.
- Ligation Buffer: No specific data.
- Adaptor Oligo Mix: No specific data.
- Forward Primer: No specific data.
- 100 mM dNTP Mix (25 mM each dNTP): No specific data.
- Herculase II Fusion DNA Polymerase: No specific data.
- 5X Herculase II Reaction Buffer: No specific data.
- SureSelect Binding Buffer: No specific data.
- SureSelect Wash Buffer 1: No specific data.
- SureSelect Wash Buffer 2: No specific data.
- SureSelect XT HS and XT Low Input Blocker Mix: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect RNase Block: No specific data.
- SureSelect Post-Capture Primer Mix: No specific data.
- SureSelect XT HS Index Primer A01-H04: No specific data.

**Delayed and immediate effects and also 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.

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## Section 11. Toxicological information

### Potential chronic health effects

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Adaptor Oligo Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Forward Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix (25 mM each dNTP)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Carcinogenicity: Potential chronic health effects

**Date of issue:** 10/10/2018
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS and XT Low Input Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Post-Capture Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect XT HS Index Primer A01-H04</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Teratogenicity:**
- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer
- Adaptor Oligo Mix
- Forward Primer
- 100 mM dNTP Mix (25 mM each dNTP)
- Herculase II Fusion DNA Polymerase
- 5X Herculase II Reaction Buffer
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
- SureSelect XT HS and XT Low Input Blocker Mix
- SureSelect Fast Hybridization Buffer
- SureSelect RNase Block
- SureSelect Post-Capture Primer Mix
- SureSelect XT HS Index Primer A01-H04

**Developmental effects:**
- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer
- Adaptor Oligo Mix
- Forward Primer
- 100 mM dNTP Mix (25 mM each dNTP)
- Herculase II Fusion DNA Polymerase
- 5X Herculase II Reaction Buffer
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
- SureSelect XT HS and XT Low Input Blocker Mix
- SureSelect Fast Hybridization Buffer
- SureSelect RNase Block
- SureSelect Post-Capture Primer Mix
- SureSelect XT HS Index Primer A01-H04

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Fertility effects:
- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer
- Adaptor Oligo Mix
- Forward Primer
- 100 mM dNTP Mix (25 mM each dNTP)
- Herculase II Fusion DNA Polymerase
- 5X Herculase II Reaction Buffer
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
- SureSelect XT HS and XT Low Input Blocker Mix
- SureSelect Fast Hybridization Buffer
- SureSelect RNase Block
- SureSelect Post-Capture Primer Mix
- SureSelect XT HS Index Primer A01-H04

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral End Repair-A Tailing Buffer</td>
<td>159509.2 mg/kg</td>
</tr>
<tr>
<td>Oral 5X Herculase II Reaction Buffer</td>
<td>81278.2 mg/kg</td>
</tr>
<tr>
<td>Oral SureSelect Binding Buffer</td>
<td>51369.9 mg/kg</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix Glycerol</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer Potassium chloride</td>
<td>Acute EC50 1337000 µg/l Fresh water</td>
<td>Algae - Navicula seminulum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 9.24 g/L Fresh water</td>
<td>Algae - Desmodesmus subspicatus</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 141460 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 12.92 mg/l Fresh water</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 880 mg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

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12. Ecological information

### T4 DNA Ligase
- **Glycerol**
  - Acute LC50 54000 mg/l Fresh water
  - Fish - Oncorhynchus mykiss
  - 96 hours
- **Ligation Buffer**
  - Polyethylene glycol
  - Acute LC50 >100000 μg/l Fresh water
  - Fish - Salmo salar - Parr
  - 96 hours
- **Glycerol**
  - Acute LC50 54000 mg/l Fresh water
  - Fish - Oncorhynchus mykiss
  - 96 hours

### Herculese II Fusion DNA Polymerase
- **Glycerol**
  - Acute LC50 54000 mg/l Fresh water
  - Fish - Oncorhynchus mykiss
  - 96 hours

### 5X Herculese II Reaction Buffer
- **Trometamol**
  - Acute EC50 >980 mg/l Fresh water
  - Daphnia
  - 48 hours
- **Ammonium sulphate**
  - Acute NOEC 520 mg/l Fresh water
  - Daphnia
  - 48 hours
  - Acute LC50 2.6 mg/l Fresh water
  - Crustaceans - Ceriodaphnia dubia - Young
  - 48 hours
  - Acute LC50 14000 μg/l Fresh water
  - Daphnia - Daphnia magna - Young
  - 48 hours
  - Acute LC50 68 μg/l Fresh water
  - Fish - Oncorhynchus gorbuscha - Alevin
  - 96 hours
  - Chronic NOEC 7.5 mg/l Marine water
  - Algae - Phaeodactylum tricornutum - Exponential growth phase
  - 96 hours
- **Hexadecan-1-ol, ethoxylated**
  - Chronic NOEC 143 μg/l Marine water
  - Fish - Salmo salar - Post-smolt
  - 5 weeks
  - Chronic NOEC 330000 to 100000 μg/l
  - Crustaceans - Crangon crangon - Adult
  - 48 hours

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

### SureSelect RNase Block
- **Glycerol**
  - Acute LC50 54000 mg/l Fresh water
  - Fish - Oncorhynchus mykiss
  - 96 hours

12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>301D Ready Biodegradability -</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td></td>
<td></td>
<td>Readily</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td></td>
<td></td>
<td>Readily</td>
</tr>
<tr>
<td>Ammonium sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>-0.46</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyethylene glycol</td>
<td>-</td>
<td>3.2</td>
<td>low</td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>5X Herculase II Reaction Buffer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trometamol</td>
<td>-1.56</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Ammonium sulphate</td>
<td>-5.1</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 12. Ecological information

Glycerol  
-1.76  
low

12.4 Mobility in soil

Soil/water partition coefficient ($K_{OC}$) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

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

IATA

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

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

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Section 15. Regulatory information

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

U.S. Federal regulations

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

- End Repair-A Tailing Enzyme Mix
- End Repair-A Tailing Buffer
- T4 DNA Ligase
- Ligation Buffer
- Adaptor Oligo Mix
- Forward Primer
- 100 mM dNTP Mix (25 mM each dNTP)
- Herculase II Fusion DNA Polymerase
- 5X Herculase II Reaction Buffer
- SureSelect Binding Buffer
- SureSelect Wash Buffer 1
- SureSelect Wash Buffer 2
- SureSelect XT HS and XT Low Input Blocker Mix
- SureSelect Fast Hybridization Buffer
- SureSelect RNase Block
- SureSelect Post-Capture Primer Mix
- SureSelect XT HS Index Primer A01-H04

EYE IRRITATION - Category 2B
Not applicable.
EYE IRRITATION - Category 2B
EYE IRRITATION - Category 2B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Not applicable.
Not applicable.
EYE IRRITATION - Category 2B
Not applicable.
Not applicable.
Not applicable.
EYE IRRITATION - Category 2B
Not applicable.
Not applicable.

Composition/information on ingredients

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Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Repair-A Tailing Enzyme Mix</td>
<td>≥50 - ≤75</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>End Repair-A Tailing Buffer</td>
<td>≤3</td>
<td>SKIN IRRITATION - Category 2</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride</td>
<td></td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>≤3</td>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</td>
</tr>
<tr>
<td>T4 DNA Ligase</td>
<td>≥50 - ≤75</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ligation Buffer</td>
<td>≥10 - ≤25</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Polyethylene glycol</td>
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<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</td>
</tr>
<tr>
<td>Glycerol</td>
<td>≥10 - ≤25</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Herculease II Fusion DNA Polymerase</td>
<td>≥50 - ≤75</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5X Herculease II Reaction Buffer</td>
<td>≤3</td>
<td>COMBUSTIBLE DUSTS</td>
</tr>
<tr>
<td>Trometamol</td>
<td></td>
<td>SKIN IRRITATION - Category 2</td>
</tr>
<tr>
<td>Hexadecan-1-ol, ethoxylated</td>
<td>≤3</td>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</td>
</tr>
<tr>
<td>SureSelect Binding Buffer</td>
<td>&lt;10</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Sodium chloride</td>
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<td></td>
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<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>≤3</td>
<td>SKIN IRRITATION - Category 2</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride</td>
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<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>≥50 - ≤75</td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
</tr>
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SARA 313

<table>
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<tr>
<th>Product name</th>
<th>CAS number</th>
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<tr>
<td>Form R - Reporting requirements</td>
<td>5X Herculease II Reaction Buffer</td>
<td>7783-20-2</td>
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<tr>
<td>Supplier notification</td>
<td>5X Herculease II Reaction Buffer</td>
<td>7783-20-2</td>
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</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

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Section 15. Regulatory information

**Massachusetts**: The following components are listed: GLYCERINE MIST

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

**New Jersey**: The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL

**Pennsylvania**: The following components are listed: 1,2,3-PROPANETRIOL

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**
Not listed.

**Montreal Protocol (Annexes A, B, C, E)**
Not listed.

**Stockholm Convention on Persistent Organic Pollutants**
Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**
Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**
Not listed.

**Inventory list**

**Australia**: Not determined.

**Canada**: Not determined.

**China**: Not determined.

**Europe**: Not determined.


**Malaysia**: Not determined.

**New Zealand**: Not determined.

**Philippines**: Not determined.

**Republic of Korea**: Not determined.

**Taiwan**: Not determined.

**Thailand**: Not determined.

**Turkey**: Not determined.

**United States**: Not determined.

**Viet Nam**: Not determined.

Section 16. Other information

**History**

**Date of issue**: 10/10/2018

**Date of previous issue**: 06/28/2017

**Version**: 2

**Procedure used to derive the classification**
## Section 16. Other information

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
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<tbody>
<tr>
<td><strong>End Repair-A Tailing Enzyme Mix</strong></td>
<td>Calculation method</td>
</tr>
<tr>
<td>EYE IRRITATION - Category 2B</td>
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<tr>
<td><strong>T4 DNA Ligase</strong></td>
<td>Calculation method</td>
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<tr>
<td>EYE IRRITATION - Category 2B</td>
<td></td>
</tr>
<tr>
<td><strong>Ligation Buffer</strong></td>
<td>Calculation method</td>
</tr>
<tr>
<td>EYE IRRITATION - Category 2B</td>
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<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</td>
<td>Calculation method</td>
</tr>
<tr>
<td><strong>Herculase II Fusion DNA Polymerase</strong></td>
<td>Calculation method</td>
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<tr>
<td>EYE IRRITATION - Category 2B</td>
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<tr>
<td><strong>5X Herculase II Reaction Buffer</strong></td>
<td>Calculation method</td>
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<tr>
<td>AQUATIC HAZARD (ACUTE) - Category 2</td>
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<tr>
<td><strong>SureSelect RNase Block</strong></td>
<td>Calculation method</td>
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<tr>
<td>EYE IRRITATION - Category 2B</td>
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</tr>
</tbody>
</table>

> Indicates information that has changed from previously issued version.

### Notice to reader

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**Date of issue**: 10/10/2018