SAFETY DATA SHEET

SureSelect QXT Library Prep Kit -ILM-Box 2-16 Reactions, Part Number 5500-0120

Section 1. Identification

1.1 Product identifier

Product name : SureSelect QXT Library Prep Kit -ILM-Box 2-16 Reactions, Part Number 5500-0120
Part No. (Chemical Kit) : 5500-0120
Part No. : DMSO 5190-7741 / 600260-53

Material uses : Analytical reagent.

DMSO 0.1 - 1 ml (16 reactions)
SureSelect QXT Enzyme Mix ILM 0.04 ml (16 reactions)
SureSelect QXT Buffer 0.3 ml (16 reactions)
Herculase II Fusion DNA Polymerase 0.04 - 0.2 ml (32 - 200 reactions)
SureSelect QXT Index Read Primer 0.265 ml (16 reactions)
SureSelect QXT Read Primer 1 0.155 ml (16 reactions)
SureSelect QXT Read Primer 2 0.265 ml (16 reactions)
SureSelect QXT P7 i1 0.015 ml (16 reactions)
SureSelect QXT P7 i2 0.015 ml (16 reactions)
SureSelect QXT P7 i3 0.015 ml (16 reactions)
SureSelect QXT P7 i4 0.015 ml (16 reactions)
SureSelect QXT P7 i5 0.015 ml (16 reactions)
SureSelect QXT P7 i6 0.015 ml (16 reactions)
SureSelect QXT P7 i7 0.015 ml (16 reactions)
SureSelect QXT P7 i8 0.015 ml (16 reactions)
SureSelect QXT P5 i13 0.02 ml (16 reactions)
SureSelect QXT P5 i14 0.02 ml (16 reactions)
100 mM dNTP Mix 0.02 - 0.1 ml (32 reactions)
Herculase II 5X Rxn Buffer 0.35 - 1.5 ml (32 reactions)

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

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

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1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

<table>
<thead>
<tr>
<th>OSHA/HCS status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</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 QXT Read Primer 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 QXT Read Primer 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 QXT P7 i1</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 QXT P7 i2</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 QXT P7 i3</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 QXT P7 i4</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 QXT P7 i5</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>

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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.

SureSelect QXT P7 i6
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.

SureSelect QXT P7 i7
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.

SureSelect QXT P7 i8
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.

SureSelect QXT P5 i13
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.

SureSelect QXT P5 i14
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.

100 mM dNTP Mix
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.

Herculase II 5X Rxn Buffer
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

DMSO
H227 FLAMMABLE LIQUIDS - Category 4
H320 EYE IRRITATION - Category 2B

SureSelect QXT Enzyme Mix
ILM
H320 EYE IRRITATION - Category 2B

SureSelect QXT Buffer
H320 EYE IRRITATION - Category 2B

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Herculease II Fusion DNA Polymerase

2.2 GHS label elements

signal word

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Signal word</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>Warning</td>
<td>H227 - Combustible liquid.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Warning</td>
<td>H320 - Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Warning</td>
<td>H320 - Causes eye irritation.</td>
</tr>
<tr>
<td>Herculease II Fusion DNA Polymerase</td>
<td>Warning</td>
<td>H320 - Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No signal word.</td>
<td></td>
</tr>
<tr>
<td>Herculease II 5X Rxn Buffer</td>
<td>No signal word.</td>
<td></td>
</tr>
</tbody>
</table>

Hazard statements

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Hazard statement</th>
</tr>
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<tbody>
<tr>
<td>DMSO</td>
<td>H227 - Combustible liquid.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>H320 - Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>H320 - Causes eye irritation.</td>
</tr>
<tr>
<td>Herculease II Fusion DNA Polymerase</td>
<td>H320 - Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Product Name</th>
<th>Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Precautionary statements

**Prevention**

SureSelect QXT Enzyme Mix ILM

P280 - Wear protective gloves. Wear eye or face protection.
P210 - Keep away from flames and hot surfaces. -No smoking.
P264 - Wash hands thoroughly after handling.

SureSelect QXT Buffer

P264 - Wash hands thoroughly after handling.

Herculase II Fusion DNA Polymerase

P264 - Wash hands thoroughly after handling.

SureSelect QXT Index Read Primer

Not applicable.

SureSelect QXT Read Primer 1

Not applicable.

SureSelect QXT Read Primer 2

Not applicable.

SureSelect QXT P7 i1

Not applicable.

SureSelect QXT P7 i2

Not applicable.

SureSelect QXT P7 i3

Not applicable.

SureSelect QXT P7 i4

Not applicable.

SureSelect QXT P7 i5

Not applicable.

SureSelect QXT P7 i6

Not applicable.

SureSelect QXT P7 i7

Not applicable.

SureSelect QXT P7 i8

Not applicable.

SureSelect QXT P5 i13

Not applicable.

SureSelect QXT P5 i14

Not applicable.

100 mM dNTP Mix

Not applicable.

Herculase II 5X Rxn Buffer

Not applicable.

**Response**

SureSelect QXT Enzyme Mix ILM

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.

SureSelect QXT Buffer

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Herculase II Fusion DNA Polymerase

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.
Section 2. Hazards identification

contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

SureSelect QXT Index Read Primer
SureSelect QXT Read Primer 1
SureSelect QXT Read Primer 2
SureSelect QXT P7 i1
SureSelect QXT P7 i2
SureSelect QXT P7 i3
SureSelect QXT P7 i4
SureSelect QXT P7 i5
SureSelect QXT P7 i6
SureSelect QXT P7 i7
SureSelect QXT P7 i8
SureSelect QXT P5 i13
SureSelect QXT P5 i14
100 mM dNTP Mix
Herculase II 5X Rxn Buffer

SureSelect QXT Enzyme Mix ILM
SureSelect QXT Buffer
Herculase II Fusion DNA Polymerase
SureSelect QXT Index Read Primer
SureSelect QXT Read Primer 1
SureSelect QXT Read Primer 2
SureSelect QXT P7 i1
SureSelect QXT P7 i2
SureSelect QXT P7 i3
SureSelect QXT P7 i4
SureSelect QXT P7 i5
SureSelect QXT P7 i6
SureSelect QXT P7 i7
SureSelect QXT P7 i8
SureSelect QXT P5 i13
SureSelect QXT P5 i14
100 mM dNTP Mix
Herculase II 5X Rxn Buffer

Storage: DMSO
P403 - Store in a well-ventilated place.
P235 - Keep cool.
SureSelect QXT Enzyme Mix ILM
SureSelect QXT Buffer
Herculase II Fusion DNA Polymerase
SureSelect QXT Index Read Primer
SureSelect QXT Read Primer 1
SureSelect QXT Read Primer 2
SureSelect QXT P7 i1
SureSelect QXT P7 i2
SureSelect QXT P7 i3
SureSelect QXT P7 i4
SureSelect QXT P7 i5
SureSelect QXT P7 i6
SureSelect QXT P7 i7
SureSelect QXT P7 i8
SureSelect QXT P5 i13
SureSelect QXT P5 i14
100 mM dNTP Mix
Herculase II 5X Rxn Buffer

Disposal: DMSO
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
SureSelect QXT Enzyme Mix ILM
SureSelect QXT Buffer
Herculase II Fusion DNA Polymerase
SureSelect QXT Index Read Primer
SureSelect QXT Read Primer 1
SureSelect QXT Read Primer 2
SureSelect QXT P7 i1
SureSelect QXT P7 i2
SureSelect QXT P7 i3
SureSelect QXT P7 i4
SureSelect QXT P7 i5
SureSelect QXT P7 i6
SureSelect QXT P7 i7
SureSelect QXT P7 i8
SureSelect QXT P5 i13
SureSelect QXT P5 i14
100 mM dNTP Mix
Herculase II 5X Rxn Buffer
Section 2. Hazards identification

SureSelect QXT P7 i7 Not applicable.
SureSelect QXT P7 i8 Not applicable.
SureSelect QXT P5 i13 Not applicable.
SureSelect QXT P5 i14 Not applicable.
100 mM dNTP Mix Not applicable.
Herculase II 5X Rxn Buffer Not applicable.

Supplemental label elements:

DMSO None known.
SureSelect QXT Enzyme Mix ILM None known.
SureSelect QXT Buffer None known.
Herculase II Fusion DNA None known.
Polymerase None known.
SureSelect QXT Index Read Primer None known.
SureSelect QXT Read Primer 1 None known.
SureSelect QXT Read Primer 2 None known.
SureSelect QXT P7 i1 None known.
SureSelect QXT P7 i2 None known.
SureSelect QXT P7 i3 None known.
SureSelect QXT P7 i4 None known.
SureSelect QXT P7 i5 None known.
SureSelect QXT P7 i6 None known.
SureSelect QXT P7 i7 None known.
SureSelect QXT P7 i8 None known.
SureSelect QXT P7 i9 None known.
SureSelect QXT P5 i13 None known.
SureSelect QXT P5 i14 None known.
100 mM dNTP Mix None known.
Herculase II 5X Rxn Buffer None known.

2.3 Other hazards

DMSO None known.
SureSelect QXT Enzyme Mix ILM None known.
SureSelect QXT Buffer None known.
Herculase II Fusion DNA None known.
Polymerase None known.
SureSelect QXT Index Read Primer None known.
SureSelect QXT Read Primer 1 None known.
SureSelect QXT Read Primer 2 None known.
SureSelect QXT P7 i1 None known.
SureSelect QXT P7 i2 None known.
SureSelect QXT P7 i3 None known.
SureSelect QXT P7 i4 None known.
SureSelect QXT P7 i5 None known.
SureSelect QXT P7 i6 None known.
SureSelect QXT P7 i7 None known.
SureSelect QXT P7 i8 None known.
SureSelect QXT P7 i9 None known.
SureSelect QXT P5 i13 None known.
SureSelect QXT P5 i14 None known.
100 mM dNTP Mix None known.
Herculase II 5X Rxn Buffer None known.

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## Section 3. Composition/information on ingredients

### Substance/mixture

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>≥25 - ≤50</td>
</tr>
<tr>
<td></td>
<td>SureSelect QXT Buffer</td>
<td>≤3</td>
</tr>
<tr>
<td></td>
<td>Herculase II Fusion DNA Polymerase</td>
<td>≥50 - ≤75</td>
</tr>
<tr>
<td></td>
<td>SureSelect QXT Index Read Primer</td>
<td>≤50 - ≤75</td>
</tr>
<tr>
<td></td>
<td>SureSelect QXT Read Primer 1</td>
<td>≤50 - ≤75</td>
</tr>
<tr>
<td></td>
<td>SureSelect QXT Read Primer 2</td>
<td>≤50 - ≤75</td>
</tr>
<tr>
<td></td>
<td>SureSelect QXT P7 i1</td>
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<td>SureSelect QXT P5 i13</td>
<td>≤3</td>
</tr>
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<td></td>
<td>SureSelect QXT P5 i14</td>
<td>≤3</td>
</tr>
<tr>
<td></td>
<td>100 mM dNTP Mix</td>
<td>≤3</td>
</tr>
<tr>
<td></td>
<td>Herculase II 5X Rxn Buffer</td>
<td>≤3</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.

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

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

**Eye contact**

- **DMSO**: 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.

- **SureSelect QXT Enzyme Mix ILM**: 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.

- **SureSelect QXT Buffer**: Immediately flush eyes with plenty of water,
### Section 4. First aid measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herculase II Fusion DNA</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>Primer</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Index Read</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>Primer 1</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</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 QXT P7 i2</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 QXT P7 i3</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 QXT P7 i4</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 QXT P7 i5</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 QXT P7 i6</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 QXT P7 i7</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 QXT P7 i8</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 QXT P5 i13</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 QXT P5 i14</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>

### Date of issue
01/19/2018
Section 4. First aid measures

100 mM dNTP Mix
Check for and remove any contact lenses. Get medical attention if irritation occurs. 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.

Herculase II 5X Rxn Buffer
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: DMSO
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SureSelect QXT Enzyme Mix ILM
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SureSelect QXT Buffer
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Herculase II Fusion DNA Polymerase
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SureSelect QXT Index Read
Remove victim to fresh air and keep at rest in a
### Section 4. First aid measures

<table>
<thead>
<tr>
<th>Primer</th>
<th>First aid instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>
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</table>

- **SureSelect QXT Read Primer 1**
- **SureSelect QXT Read Primer 2**
- **SureSelect QXT P7 i1**
- **SureSelect QXT P7 i2**
- **SureSelect QXT P7 i3**
- **SureSelect QXT P7 i4**
- **SureSelect QXT P7 i5**
- **SureSelect QXT P7 i6**
- **SureSelect QXT P7 i7**
- **SureSelect QXT P7 i8**
- **SureSelect QXT P5 i13**
- **SureSelect QXT P5 i14**

- **100 mM dNTP Mix**
- **Herculase II 5X Rxn Buffer**

For 100 mM dNTP Mix:
- 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.

For Herculase II 5X Rxn Buffer:
- In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>SureSelect QXT Enzyme Mix ILM</th>
<th>SureSelect QXT Buffer</th>
<th>Herculase II Fusion DNA Polymerase</th>
<th>SureSelect QXT Index Read Primer</th>
<th>SureSelect QXT Read Primer 1</th>
<th>SureSelect QXT Read Primer 2</th>
<th>SureSelect QXT P7 i1</th>
<th>SureSelect QXT P7 i2</th>
<th>SureSelect QXT P7 i3</th>
<th>SureSelect QXT P7 i4</th>
<th>SureSelect QXT P7 i5</th>
<th>SureSelect QXT P7 i6</th>
<th>SureSelect QXT P7 i7</th>
<th>SureSelect QXT P7 i8</th>
<th>SureSelect QXT P5 i13</th>
<th>SureSelect QXT P5 i14</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</td>
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## Section 4. First aid measures

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<thead>
<tr>
<th>Chemical</th>
<th>First aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mM dNTP Mix</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>Herculase II 5X Rxn Buffer</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>
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<td>SureSelect QXT Buffer</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>Herculase II Fusion DNA Polymerase</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.</td>
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### Ingestion

**DMSO**

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.

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Section 4. First aid measures

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 QXT Index Read 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.

SureSelect QXT Read Primer 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 QXT Read Primer 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 QXT P7 i1
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 QXT P7 i2
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 QXT P7 i3
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 QXT P7 i4
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.
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT P7 i5</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>SureSelect QXT P7 i6</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>SureSelect QXT P7 i7</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>SureSelect QXT P7 i8</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>SureSelect QXT P5 i13</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>SureSelect QXT P5 i14</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>
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<tr>
<td>100 mM dNTP Mix</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>Herculase II 5X Rxn 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>
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</table>
## Section 4. First aid measures

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

#### Potential acute health effects

<table>
<thead>
<tr>
<th><strong>Eye contact</strong></th>
<th><strong>Potential acute health effects</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>No known significant effects or critical hazards.</td>
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<tr>
<th><strong>Inhalation</strong></th>
<th><strong>Potential acute health effects</strong></th>
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</thead>
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<td>DMSO</td>
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<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
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<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
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<td>SureSelect QXT P7 i3</td>
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<th><strong>Skin contact</strong></th>
<th><strong>Potential acute health effects</strong></th>
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</thead>
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<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
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<td>No known significant effects or critical hazards.</td>
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Section 4. First aid measures

**Ingestion**

- **DMSO**
  - No known significant effects or critical hazards.
  - SureSelect QXT Enzyme Mix
  - No known significant effects or critical hazards.
  - SureSelect QXT Buffer
  - No known significant effects or critical hazards.
  - Herculase II Fusion DNA Polymerase
  - No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**

- **DMSO**
  - Adverse symptoms may include the following:
    - irritation
    - watering
    - redness

  - SureSelect QXT Enzyme Mix
    - Adverse symptoms may include the following:
      - irritation
      - watering
      - redness

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

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

  - SureSelect QXT Index Read Primer
  - No specific data.
  - SureSelect QXT Read Primer 1
  - No specific data.
  - SureSelect QXT P7 i1
  - No specific data.
  - SureSelect QXT P7 i2
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  - SureSelect QXT P7 i8
  - No specific data.
  - SureSelect QXT P7 i9
  - No specific data.
  - SureSelect QXT P7 i10
  - No specific data.
  - SureSelect QXT P7 i11
  - No specific data.
  - SureSelect QXT P7 i12
  - No specific data.
  - SureSelect QXT P7 i13
  - No specific data.
  - SureSelect QXT P7 i14
  - No specific data.
  - 100 mM dNTP Mix
  - No specific data.
Section 4. First aid measures

**Skin contact**: DMSO
- SureSelect QXT Enzyme Mix ILM
- SureSelect QXT Buffer
- Herculase II Fusion DNA Polymerase
- SureSelect QXT Index Read Primer
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- SureSelect QXT P5 i13
- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer

**Inhalation**: No specific data.
- SureSelect QXT Enzyme Mix ILM
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- SureSelect QXT P7 i8
- SureSelect QXT P5 i13
- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer

**Ingestion**: No specific data.
- SureSelect QXT Enzyme Mix ILM
- SureSelect QXT Buffer
- Herculase II Fusion DNA Polymerase
- SureSelect QXT Index Read Primer
- SureSelect QXT Read Primer 1
- SureSelect QXT Read Primer 2
- SureSelect QXT P7 i1
- SureSelect QXT P7 i2
- SureSelect QXT P7 i3
- SureSelect QXT P7 i4
- SureSelect QXT P7 i5
- SureSelect QXT P7 i6
- SureSelect QXT P7 i7
- SureSelect QXT P7 i8
- SureSelect QXT P5 i13
- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer

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

Notes to physician:

DMSO

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT Enzyme Mix ILM

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT Buffer

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Herculase II Fusion DNA Polymerase

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT Index Read Primer

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT Read Primer 1

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT Read Primer 2

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P7 i1

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P7 i2

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P7 i3

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P7 i4

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P7 i5

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P7 i6

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P7 i7

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P7 i8

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect QXT P5 i13

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

100 mM dNTP Mix

No specific data.

Herculase II 5X Rxn Buffer

No specific data.

SureSelect QXT P5 i14

No specific data.

SureSelect QXT P5 i15

No specific data.

SureSelect QXT P5 i16

No specific data.

SureSelect QXT P5 i17

No specific data.

SureSelect QXT P5 i18

No specific data.

100 mM dNTP Mix

No specific data.

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SureSelect QXT P5 i14  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.

100 mM dNTP Mix  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.

Herculase II 5X Rxn Buffer  No action shall be taken involving any personal risk or without suitable training.

**Specific treatments**

- DMSO  No specific treatment.
- SureSelect QXT Enzyme Mix  ILM  No specific treatment.
- SureSelect QXT Buffer  No specific treatment.
- Herculase II Fusion DNA Polymerase  No specific treatment.
- SureSelect QXT Index Read Primer  No specific treatment.
- SureSelect QXT Read Primer 1  No specific treatment.
- SureSelect QXT Read Primer 2  No specific treatment.
- SureSelect QXT P7 i1  No specific treatment.
- SureSelect QXT P7 i2  No specific treatment.
- SureSelect QXT P7 i3  No specific treatment.
- SureSelect QXT P7 i4  No specific treatment.
- SureSelect QXT P7 i5  No specific treatment.
- SureSelect QXT P7 i6  No specific treatment.
- SureSelect QXT P7 i7  No specific treatment.
- SureSelect QXT P7 i8  No specific treatment.
- SureSelect QXT P7 i9  No specific treatment.
- SureSelect QXT P5 i13  No specific treatment.
- SureSelect QXT P5 i14  No specific treatment.
- 100 mM dNTP Mix  No specific treatment.
- Herculase II 5X Rxn Buffer  No specific treatment.

**Protection of first-aiders**

- DMSO  No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- SureSelect QXT Enzyme Mix  ILM  No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- SureSelect QXT Buffer  No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Herculase II Fusion DNA Polymerase  No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- SureSelect QXT Index Read Primer  No action shall be taken involving any personal risk or without suitable training.
- SureSelect QXT Read Primer 1  No action shall be taken involving any personal risk or without suitable training.
- SureSelect QXT Read Primer 2  No action shall be taken involving any personal risk or without suitable training.
- SureSelect QXT P7 i1  No action shall be taken involving any personal risk or without suitable training.
- SureSelect QXT P7 i2  No action shall be taken involving any personal risk or without suitable training.

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SureSelect QXT P7 i3  No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i4  No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i5  No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i6  No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i7  No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i8  No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i13  No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i14  No action shall be taken involving any personal risk or without suitable training.
100 mM dNTP Mix  No action shall be taken involving any personal risk or without suitable training.
Herculase II 5X Rxn Buffer  No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:
- DMSO
- SureSelect QXT Enzyme Mix ILM
- SureSelect QXT Buffer
- Herculase II Fusion DNA Polymerase
- SureSelect QXT Index Read Primer
- SureSelect QXT Read Primer 1
- SureSelect QXT Read Primer 2
- SureSelect QXT P7 i1
- SureSelect QXT P7 i2
- SureSelect QXT P7 i3
- SureSelect QXT P7 i4
- SureSelect QXT P7 i5
- SureSelect QXT P7 i6
- SureSelect QXT P7 i7
- SureSelect QXT P7 i8
- SureSelect QXT P5 i13
- SureSelect QXT P5 i14

Use dry chemical, CO₂, water spray (fog) or foam.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Section 5. Fire-fighting measures

100 mM dNTP Mix | Use an extinguishing agent suitable for the surrounding fire.
Herculase II 5X Rxn Buffer | Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
- DMSO
- SureSelect QXT Enzyme Mix ILM
- SureSelect QXT Buffer
- Herculase II Fusion DNA Polymerase
- SureSelect QXT Index Read Primer
- SureSelect QXT Read Primer 1
- SureSelect QXT Read Primer 2
- SureSelect QXT P7 i1
- SureSelect QXT P7 i2
- SureSelect QXT P7 i3
- SureSelect QXT P7 i4
- SureSelect QXT P7 i5
- SureSelect QXT P7 i6
- SureSelect QXT P7 i7
- SureSelect QXT P7 i8
- SureSelect QXT P5 i13
- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer

None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: DMSO

Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

SureSelect QXT Enzyme Mix ILM | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Buffer | 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.
SureSelect QXT Index Read Primer | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Read Primer 1 | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Read Primer 2 | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i1 | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i2 | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i3 | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i4 | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i5 | In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i6 | In a fire or if heated, a pressure increase will occur and the container may burst.
Section 5. Fire-fighting measures

SureSelect QXT P7 i7 and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i8 and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P5 i13 and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P5 i14 and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
100 mM dNTP Mix and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Herculase II 5X Rxn Buffer and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**

SureSelect QXT Enzyme Mix ILM Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides

SureSelect QXT Buffer Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

Herculase II Fusion DNA Polymerase Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

SureSelect QXT Index Read Primer No specific data.
SureSelect QXT Read Primer 1 No specific data.
SureSelect QXT Read Primer 2 No specific data.
SureSelect QXT P7 i1 No specific data.
SureSelect QXT P7 i2 No specific data.
SureSelect QXT P7 i3 No specific data.
SureSelect QXT P7 i4 No specific data.
SureSelect QXT P7 i5 No specific data.
SureSelect QXT P7 i6 No specific data.
SureSelect QXT P7 i7 No specific data.
SureSelect QXT P7 i8 No specific data.
SureSelect QXT P5 i13 No specific data.
SureSelect QXT P5 i14 No specific data.
100 mM dNTP Mix Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
phosphorus oxides

Herculase II 5X Rxn Buffer Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides
Section 5. Fire-fighting measures

5.3 Advice for firefighters

Special protective actions for fire-fighters:

- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

SureSelect QXT Enzyme Mix ILM

SureSelect QXT Buffer

Herculase II Fusion DNA Polymerase

SureSelect QXT Index Read Primer

SureSelect QXT Read Primer 1

SureSelect QXT Read Primer 2

SureSelect QXT P7 i1

SureSelect QXT P7 i2

SureSelect QXT P7 i3

SureSelect QXT P7 i4

SureSelect QXT P7 i5

SureSelect QXT P7 i6

SureSelect QXT P7 i7

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### Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Special protective equipment for fire-fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT P7 i8</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 QXT P5 i13</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 QXT P5 i14</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</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 5X Rxn 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 QXT Enzyme Mix ILM</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 QXT 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>Herculase II Fusion DNA Polymerase</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 QXT Index Read Primer</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 QXT Read Primer 1</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 QXT Read Primer 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 QXT P7 i1</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 QXT P7 i2</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 QXT P7 i3</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>DMSO</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>

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Section 5. Fire-fighting measures

SureSelect QXT P7 i4  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SureSelect QXT P7 i5  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SureSelect QXT P7 i6  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SureSelect QXT P7 i7  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SureSelect QXT P7 i8  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SureSelect QXT P5 i13 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SureSelect QXT P5 i14 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

100 mM dNTP Mix   Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Herculase II 5X Rxn Buffer  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SureSelect QXT Enzyme Mix  ILM

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.
Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT 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>
<tr>
<td>Herculase II Fusion DNA Polymerase</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>SureSelect QXT Index Read Primer</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 QXT Read Primer 1</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</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 QXT P7 i2</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 QXT P7 i3</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 QXT P7 i4</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>
</tbody>
</table>
Section 6. Accidental release measures

SureSelect QXT P7 i5
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 QXT P7 i6
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 QXT P7 i7
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 QXT P7 i8
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 QXT P5 i13
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 QXT P5 i14
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
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 5X Rxn 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.
## Section 6. Accidental release measures

**For emergency responders**

- DMSO

**SureSelect QXT Enzyme Mix ILM**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT Buffer**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Herculase II Fusion DNA Polymerase**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT Index Read Primer**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT Read Primer 1**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT Read Primer 2**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT P7 i1**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT P7 i2**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT P7 i3**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT P7 i4**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT P7 i5**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT P7 i6**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT P7 i7**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureSelect QXT P7 i8**

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
Section 6. Accidental release measures

6.2 Environmental precautions

- DMSO

- SureSelect QXT P5 i13
  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 QXT P5 i14
  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).

- 100 mM dNTP 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).

- Herculase II 5X Rxn 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).

- SureSelect QXT Enzyme Mix  ILM
  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 QXT 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).

- Herculase II Fusion DNA Polymerase
  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 QXT Index Read Primer
  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 QXT Read Primer 1
  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 QXT Read Primer 2
  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 QXT P7 i1
  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>SureSelect QXT P7 i2</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT P7 i3</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 QXT P7 i4</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 QXT P7 i5</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 QXT P7 i6</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 QXT P7 i7</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 QXT P7 i8</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 QXT P5 i13</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 QXT P5 i14</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</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>Herculease II 5X Rxn 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>
</tbody>
</table>

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

Date of issue: 01/19/2018
### Section 6. Accidental release measures

**Methods for cleaning up** : DMSO

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

**SureSelect QXT 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.

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

**SureSelect QXT Index Read 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.

**SureSelect QXT Read Primer 1**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

**SureSelect QXT P7 i1**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**SureSelect QXT P7 i2**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**SureSelect QXT P7 i3**
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.
Section 6. Accidental release measures

**SureSelect QXT P7 i4**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**SureSelect QXT P7 i5**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**SureSelect QXT P7 i6**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**SureSelect QXT P7 i7**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**SureSelect QXT P7 i8**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**SureSelect QXT P5 i13**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**SureSelect QXT P5 i14**
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**
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 5X Rxn 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.
Section 7. Handling and storage

7.1 Precautions for safe handling

**Protective measures**

- **DMSO**

- 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. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

- **SureSelect QXT Enzyme Mix ILM**

- 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.

- **SureSelect QXT Buffer**

- 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.

- **Herculase II Fusion DNA Polymerase**

- 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.

- **SureSelect QXT Index Read Primer**

- **SureSelect QXT Read Primer 1**

- **SureSelect QXT Read Primer 2**

- **SureSelect QXT P7 i1**

- **SureSelect QXT P7 i2**

- **SureSelect QXT P7 i3**

- **SureSelect QXT P7 i4**

- **SureSelect QXT P7 i5**

- **SureSelect QXT P7 i6**

- Put on appropriate personal protective equipment (see Section 8).
Section 7. Handling and storage

Advice on general occupational hygiene: DMSO

SureSelect QXT P7 i7: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i8: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P5 i13: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P5 i14: 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.

100 mM dNTP Mix: Put on appropriate personal protective equipment (see Section 8).

Herculase II Fusion DNA Polymerase: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT Enzyme Mix ILM: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT Buffer: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT Index Read Primer: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT Read Primer 1: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT Read Primer 2: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Section 7. Handling and storage

contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i1
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i2
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i3
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i4
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i5
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i6
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i7
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SureSelect QXT P7 i8
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
## Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Material</th>
<th>Storage Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT P5 i13</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>100 mM dNTP Mix</td>
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</tr>
<tr>
<td>Herculase II 5X Rxn 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>DMSO</td>
<td>Storage temperature: -20°C (-4°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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 QXT Enzyme Mix ILM</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
</tbody>
</table>

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

- **DMSO**
Section 7. Handling and storage

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

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

SureSelect QXT Index Read Primer

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

SureSelect QXT Read Primer 1

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

SureSelect QXT Read Primer 2

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

SureSelect QXT P7 i1

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright.
Section 7. Handling and storage

SureSelect QXT P7 i2
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect QXT P7 i3
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect QXT P7 i4
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect QXT P7 i5
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect QXT P7 i6
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
## Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Product</th>
<th>Storage Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
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</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
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<td>SureSelect QXT P5 i14</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
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<td>100 mM dNTP Mix</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
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Section 7. Handling and storage

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.

7.3 Specific end use(s)

Recommendations:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Industrial applications</th>
<th>Professional applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Herculanse II Fusion DNA Polymerase</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
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</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>Not applicable.</td>
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</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
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</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
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</tr>
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<tr>
<td>Herculanse II 5X Rxn Buffer</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Industrial sector specific solutions:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Industrial applications</th>
<th>Professional applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
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</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
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<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
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<td>Not applicable.</td>
</tr>
<tr>
<td>Herculanse II Fusion DNA Polymerase</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
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<td>Not applicable.</td>
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<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
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<td>Not applicable.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
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<td>Not applicable.</td>
</tr>
<tr>
<td>Herculanse II 5X Rxn Buffer</td>
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<td>Not applicable.</td>
</tr>
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</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>DMSO</td>
<td>AIHA WEEL (United States, 10/2011). TWA: 250 ppm 8 hours.</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</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>SureSelect QXT Enzyme Mix ILM</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 None.</td>
</tr>
<tr>
<td>Glycerol</td>
<td>TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>None.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</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 None.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</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 None.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>None.</td>
</tr>
<tr>
<td>Trometamol</td>
<td>None.</td>
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</table>

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**
Section 8. Exposure controls/personal protection

**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.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**

**Physical state**: DMSO Liquid. [Clear.]
SureSelect QXT Enzyme Mix ILM Liquid.
SureSelect QXT Buffer Liquid.
Herculase II Fusion DNA Polymerase Liquid.
SureSelect QXT Index Read Primer Liquid.
SureSelect QXT Read Primer 1 Liquid.
SureSelect QXT Read Primer 2 Liquid.
SureSelect QXT P7 i1 Liquid.
SureSelect QXT P7 i2 Liquid.
SureSelect QXT P7 i3 Liquid.
SureSelect QXT P7 i4 Liquid.
SureSelect QXT P7 i5 Liquid.
SureSelect QXT P7 i6 Liquid.
SureSelect QXT P7 i7 Liquid.
SureSelect QXT P7 i8 Liquid.
SureSelect QXT P5 i13 Liquid.
SureSelect QXT P5 i14 Liquid.
100 mM dNTP Mix Liquid.
Herculase II 5X Rxn Buffer Liquid.
Section 9. Physical and chemical properties

Color

- DMSO: Colorless.
- SureSelect QXT Enzyme Mix ILM: Not available.
- SureSelect QXT Buffer: Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- SureSelect QXT Index Read Primer: Not available.
- SureSelect QXT Read Primer 1: Not available.
- SureSelect QXT Read Primer 2: Not available.
- SureSelect QXT P7 i1: Not available.
- SureSelect QXT P7 i2: Not available.
- SureSelect QXT P7 i3: Not available.
- SureSelect QXT P7 i4: Not available.
- SureSelect QXT P7 i5: Not available.
- SureSelect QXT P7 i6: Not available.
- SureSelect QXT P7 i7: Not available.
- SureSelect QXT P7 i8: Not available.
- SureSelect QXT P7 i9: Not available.
- SureSelect QXT P7 i10: Not available.
- SureSelect QXT P7 i11: Not available.
- SureSelect QXT P7 i12: Not available.
- SureSelect QXT P7 i13: Not available.
- SureSelect QXT P7 i14: Not available.
- 100 mM dNTP Mix: Not available.
- Herculase II 5X Rxn Buffer: Not available.

Odor

- DMSO: Odorless. [Slight]
- SureSelect QXT Enzyme Mix ILM: Not available.
- SureSelect QXT Buffer: Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- SureSelect QXT Index Read Primer: Not available.
- SureSelect QXT Read Primer 1: Not available.
- SureSelect QXT Read Primer 2: Not available.
- SureSelect QXT P7 i1: Not available.
- SureSelect QXT P7 i2: Not available.
- SureSelect QXT P7 i3: Not available.
- SureSelect QXT P7 i4: Not available.
- SureSelect QXT P7 i5: Not available.
- SureSelect QXT P7 i6: Not available.
- SureSelect QXT P7 i7: Not available.
- SureSelect QXT P7 i8: Not available.
- SureSelect QXT P7 i9: Not available.
- SureSelect QXT P7 i10: Not available.
- SureSelect QXT P7 i11: Not available.
- SureSelect QXT P7 i12: Not available.
- 100 mM dNTP Mix: Not available.
- Herculase II 5X Rxn Buffer: Not available.

Odor threshold

- DMSO: Not available.
### Section 9. Physical and chemical properties

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#### pH

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<td>SureSelect QXT Buffer</td>
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<tr>
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<td>7.7 to 8.7</td>
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<td>Polymerase</td>
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<td>7</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>7</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
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#### Melting point

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<tr>
<td>Herculase II Fusion DNA</td>
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</tr>
<tr>
<td>Polymerase</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
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<td>0°C (32°F)</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>0°C (32°F)</td>
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<tr>
<td>SureSelect QXT P7 i3</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>0°C (32°F)</td>
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<td>0°C (32°F)</td>
</tr>
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#### Boiling point

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</tr>
<tr>
<td>Polymerase</td>
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<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>100°C (212°F)</td>
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</tbody>
</table>

**Date of issue:** 01/19/2018
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>DMSO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Evaporation rate</strong></td>
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<td>ILM</td>
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<tr>
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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>
<td>SureSelect QXT Index Read</td>
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</tr>
<tr>
<td>Primer</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
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</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>Not available.</td>
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<tr>
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</tr>
<tr>
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<td>100 mM dNTP Mix</td>
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<tr>
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<table>
<thead>
<tr>
<th><strong>Flash point</strong></th>
<th>DMSO</th>
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<tbody>
<tr>
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<tr>
<td>ILM</td>
<td>Open cup: 87°C (188.6°F)</td>
</tr>
<tr>
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</tr>
<tr>
<td>Herculase II Fusion DNA</td>
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</tr>
<tr>
<td>Polymerase</td>
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</tr>
<tr>
<td>SureSelect QXT Index Read</td>
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</tr>
<tr>
<td>Primer</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
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</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not available.</td>
</tr>
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<td>SureSelect QXT P7 i1</td>
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</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>Not available.</td>
</tr>
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<td>SureSelect QXT P5 i13</td>
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<tr>
<td>SureSelect QXT P5 i14</td>
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**Date of issue:** 01/19/2018
Section 9. Physical and chemical properties

**Flammability (solid, gas)**

<table>
<thead>
<tr>
<th>Product</th>
<th>Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
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</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
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</tr>
<tr>
<td>SureSelect QXT Buffer</td>
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</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Polymerase</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
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</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
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<tr>
<td>SureSelect QXT P5 i13</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
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<td>100 mM dNTP Mix</td>
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<tr>
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**Lower and upper explosive (flammable) limits**

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<td>Polymerase</td>
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</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
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</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
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<td>Not available.</td>
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<tr>
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</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
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**Vapor pressure**

<table>
<thead>
<tr>
<th>Product</th>
<th>Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>0.056 kPa (0.42 mm Hg) [room temperature]</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Not available.</td>
</tr>
<tr>
<td>Polymerase</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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Section 9. Physical and chemical properties

**Vapor density**
- **DMSO**: 2.7 [Air = 1]
- SureSelect QXT Enzyme Mix  ILM: Not available.
- SureSelect QXT Buffer: Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- SureSelect QXT Index Read Primer: Not available.
- SureSelect QXT Read Primer 1: Not available.
- SureSelect QXT Read Primer 2: Not available.
- SureSelect QXT P7 i1: Not available.
- SureSelect QXT P7 i2: Not available.
- SureSelect QXT P7 i3: Not available.
- SureSelect QXT P7 i4: Not available.
- SureSelect QXT P7 i5: Not available.
- SureSelect QXT P7 i6: Not available.
- SureSelect QXT P7 i7: Not available.
- SureSelect QXT P7 i8: Not available.
- SureSelect QXT P5 i13: Not available.
- SureSelect QXT P5 i14: Not available.
- 100 mM dNTP Mix: Not available.
- Herculase II 5X Rxn Buffer: Not available.

**Relative density**
- **DMSO**: 1.1
- SureSelect QXT Enzyme Mix  ILM: Not available.
- SureSelect QXT Buffer: Not available.
- Herculase II Fusion DNA Polymerase: Not available.
- SureSelect QXT Index Read Primer: Not available.
- SureSelect QXT Read Primer 1: Not available.
- SureSelect QXT Read Primer 2: Not available.
- SureSelect QXT P7 i1: Not available.
- SureSelect QXT P7 i2: Not available.
- SureSelect QXT P7 i3: Not available.
- SureSelect QXT P7 i4: Not available.
- SureSelect QXT P7 i5: Not available.
- SureSelect QXT P7 i6: Not available.
- SureSelect QXT P7 i7: Not available.
- SureSelect QXT P7 i8: Not available.
- SureSelect QXT P5 i13: Not available.
- SureSelect QXT P5 i14: Not available.
- 100 mM dNTP Mix: Not available.
- Herculase II 5X Rxn Buffer: Not available.

**Solubility**
- **DMSO**
- SureSelect QXT Enzyme Mix  ILM: Soluble in the following materials: cold water and hot water.
- SureSelect QXT Buffer: 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.
- SureSelect QXT Index Read Primer: Easily soluble in the following materials: cold water and hot water.
- SureSelect QXT Read Primer 1: Easily soluble in the following materials: cold water and hot water.

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Section 9. Physical and chemical properties

SureSelect QXT Read Primer 2
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P7 i1
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P7 i2
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P7 i3
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P7 i4
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P7 i5
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P7 i6
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P7 i7
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P7 i8
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P5 i13
Easily soluble in the following materials: cold water and hot water.

SureSelect QXT P5 i14
Easily soluble in the following materials: cold water and hot water.

100 mM dNTP Mix
Easily soluble in the following materials: cold water and hot water.

Herculase II 5X Rxn Buffer
Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water

<table>
<thead>
<tr>
<th>DMSO</th>
<th>-1.35</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
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</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
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<td>SureSelect QXT P7 i4</td>
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<tr>
<td>SureSelect QXT P7 i5</td>
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<td>SureSelect QXT P7 i6</td>
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</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
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</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
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<tr>
<td>100 mM dNTP Mix</td>
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</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
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</table>

Auto-ignition temperature

<table>
<thead>
<tr>
<th>DMSO</th>
<th>300 to 302°C (572 to 575.6°F)</th>
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<tbody>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
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</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
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</table>

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## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Component</th>
<th>Availability</th>
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<tbody>
<tr>
<td>SureSelect QXT P7 i3</td>
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</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>Not available.</td>
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<tr>
<td>SureSelect QXT P5 i13</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
<td>Not available.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Decomposition temperature**: DMSO 140 to 189°C (284 to 372.2°F)

**Viscosity**: Dynamic (room temperature): 2.14 mPa·s (2.14 cP)

<table>
<thead>
<tr>
<th>Component</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
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</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Not available.</td>
</tr>
<tr>
<td>Polymerase</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>Not available.</td>
</tr>
<tr>
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<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>Not available.</td>
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<td>SureSelect QXT P7 i6</td>
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<tr>
<td>SureSelect QXT P7 i7</td>
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<tr>
<td>SureSelect QXT P7 i8</td>
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<td>SureSelect QXT P5 i13</td>
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</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
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</tr>
<tr>
<td>100 mM dNTP Mix</td>
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</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
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</table>

**Date of issue**: 01/19/2018
## Section 10. Stability and reactivity

### 10.1 Reactivity

<table>
<thead>
<tr>
<th>Product</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>Polymerase</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
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<tr>
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<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
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<td>SureSelect QXT P7 i6</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
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### 10.2 Chemical stability

<table>
<thead>
<tr>
<th>Product</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Polymerase</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>The product is stable.</td>
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<tr>
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<td>The product is stable.</td>
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<tr>
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<tr>
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<td>The product is stable.</td>
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<td>The product is stable.</td>
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<tr>
<td>SureSelect QXT P7 i8</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

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Section 10. Stability and reactivity

10.4 Conditions to avoid

- DMSO

SureSelect QXT Enzyme Mix ILM
SureSelect QXT Buffer
Herculase II Fusion DNA Polymerase
SureSelect QXT Index Read Primer
SureSelect QXT Read Primer 1
SureSelect QXT Read Primer 2
SureSelect QXT P7 i1
SureSelect QXT P7 i2
SureSelect QXT P7 i3
SureSelect QXT P7 i4
SureSelect QXT P7 i5
SureSelect QXT P7 i6
SureSelect QXT P7 i7
SureSelect QXT P7 i8
SureSelect QXT P5 i13
SureSelect QXT P5 i14
100 mM dNTP Mix
Herculase II 5X Rxn Buffer

Under normal conditions of storage and use, hazardous reactions will not occur.

SureSelect QXT Enzyme Mix ILM
SureSelect QXT Buffer
Herculase II Fusion DNA Polymerase
SureSelect QXT Index Read Primer
SureSelect QXT Read Primer 1
SureSelect QXT Read Primer 2
SureSelect QXT P7 i1
SureSelect QXT P7 i2
SureSelect QXT P7 i3
SureSelect QXT P7 i4
SureSelect QXT P7 i5
SureSelect QXT P7 i6
SureSelect QXT P7 i7
SureSelect QXT P7 i8
SureSelect QXT P5 i13
SureSelect QXT P5 i14
100 mM dNTP Mix
Herculase II 5X Rxn Buffer

Under normal conditions of storage and use, hazardous reactions will not occur.

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

SureSelect QXT Enzyme Mix ILM
SureSelect QXT Buffer
Herculase II Fusion DNA Polymerase
SureSelect QXT Index Read Primer
SureSelect QXT Read Primer 1
SureSelect QXT Read Primer 2
SureSelect QXT P7 i1
SureSelect QXT P7 i2
SureSelect QXT P7 i3
No specific data.

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SureSelect QXT Library Prep Kit -ILM-Box 2-16 Reactions, Part Number 5500-0120

Section 10. Stability and reactivity

10.6 Hazardous decomposition products

SureSelect QXT P7 i4
No specific data.

SureSelect QXT P7 i5
No specific data.

SureSelect QXT P7 i6
No specific data.

SureSelect QXT P7 i7
No specific data.

SureSelect QXT P7 i8
No specific data.

SureSelect QXT P5 i13
No specific data.

SureSelect QXT P5 i14
No specific data.

100 mM dNTP Mix
No specific data.

Herculase II 5X Rxn Buffer
No specific data.

10.5 Incompatible materials

DMSO
Reactive or incompatible with the following materials:
- oxidizing materials

SureSelect QXT Enzyme Mix ILM
May react or be incompatible with oxidizing materials.

SureSelect QXT Buffer
May react or be incompatible with oxidizing materials.

Herculase II Fusion DNA Polymerase
May react or be incompatible with oxidizing materials.

SureSelect QXT Index Read Primer
May react or be incompatible with oxidizing materials.

SureSelect QXT Read Primer 1
May react or be incompatible with oxidizing materials.

SureSelect QXT Read Primer 2
May react or be incompatible with oxidizing materials.

SureSelect QXT P7 i1
May react or be incompatible with oxidizing materials.

SureSelect QXT P7 i2
May react or be incompatible with oxidizing materials.

SureSelect QXT P7 i3
May react or be incompatible with oxidizing materials.

SureSelect QXT P7 i4
May react or be incompatible with oxidizing materials.

SureSelect QXT P7 i5
May react or be incompatible with oxidizing materials.

SureSelect QXT P7 i6
May react or be incompatible with oxidizing materials.

SureSelect QXT P7 i7
May react or be incompatible with oxidizing materials.

SureSelect QXT P7 i8
May react or be incompatible with oxidizing materials.

SureSelect QXT P5 i13
May react or be incompatible with oxidizing materials.

SureSelect QXT P5 i14
May react or be incompatible with oxidizing materials.

100 mM dNTP Mix
May react or be incompatible with oxidizing materials.

Herculase II 5X Rxn Buffer
May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products

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

SureSelect QXT Enzyme Mix ILM
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

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Section 10. Stability and reactivity

Herculase II Fusion DNA Polymerase
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT Index Read Primer
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT Read Primer 1
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT Read Primer 2
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P7 i1
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P7 i2
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P7 i3
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P7 i4
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P7 i5
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P7 i6
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P7 i7
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P7 i8
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P5 i13
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect QXT P5 i14
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

Herculase II 5X Rxn Buffer
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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## Section 11. Toxicological information

<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>Dimethyl sulfoxide</td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>40000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>14500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Potassium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2600 mg/kg</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>Trometamol</td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>5000 mg/kg</td>
</tr>
</tbody>
</table>

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl sulfoxide</td>
<td>Eyes - Mild irritant</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>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></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Glycerol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</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>Potassium chloride</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Glycerol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</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>Herculase II Fusion DNA Polymerase</td>
<td>Glycerol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</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>Herculase II 5X Rxn Buffer</td>
<td>Trometamol</td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>25 Percent</td>
<td>-</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th></th>
<th>Skin - Severe irritant</th>
<th>Rabbit</th>
<th>-</th>
<th>500 milligrams</th>
<th>-</th>
</tr>
</thead>
</table>

**Sensitization**
Not available.

**Mutagenicity**
Not available.

**Carcinogenicity**
Not available.

**Reproductive toxicity**
Not available.

**Teratogenicity**
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>Herculase II 5X Rxn Buffer</td>
<td></td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Trometamol</td>
<td>Category 3</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**: DMSO

<table>
<thead>
<tr>
<th>SureSelect QXT Enzyme Mix ILM</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>Polymerase</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>Not available.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i14</td>
<td>Not available.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
</tbody>
</table>

**Potential acute health effects**

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### Inhalation

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Skin contact

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Eye contact

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Herculase II Fusion DNA</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect QXT Index Read Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i13</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

Ingestion:
- DMSO: No known significant effects or critical hazards.
- SureSelect QXT Enzyme Mix ILM: No known significant effects or critical hazards.
- SureSelect QXT Buffer: No known significant effects or critical hazards.
- Herculase II Fusion DNA Polymerase: No known significant effects or critical hazards.
- SureSelect QXT Index Read Primer: No known significant effects or critical hazards.
- SureSelect QXT Read Primer 1: No known significant effects or critical hazards.
- SureSelect QXT Read Primer 2: No known significant effects or critical hazards.
- SureSelect QXT P7 i1: No known significant effects or critical hazards.
- SureSelect QXT P7 i2: No known significant effects or critical hazards.
- SureSelect QXT P7 i3: No known significant effects or critical hazards.
- SureSelect QXT P7 i4: No known significant effects or critical hazards.
- SureSelect QXT P7 i5: No known significant effects or critical hazards.
- SureSelect QXT P7 i6: No known significant effects or critical hazards.
- SureSelect QXT P7 i7: No known significant effects or critical hazards.
- SureSelect QXT P7 i8: No known significant effects or critical hazards.
- SureSelect QXT P5 i13: No known significant effects or critical hazards.
- SureSelect QXT P5 i14: No known significant effects or critical hazards.
- 100 mM dNTP Mix: No known significant effects or critical hazards.
- Herculase II 5X Rxn Buffer: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:
- DMSO: Adverse symptoms may include the following:
  - irritation
  - watering
  - redness
- SureSelect QXT Enzyme Mix ILM: Adverse symptoms may include the following:
  - irritation
  - watering
  - redness
- SureSelect QXT Buffer: Adverse symptoms may include the following:
  - irritation
  - watering
  - redness
- Herculase II Fusion DNA Polymerase: Adverse symptoms may include the following:
  - irritation
  - watering
  - redness
- SureSelect QXT Index Read Primer: No specific data.
- SureSelect QXT Read Primer 1: No specific data.
- SureSelect QXT Read Primer 2: No specific data.
- SureSelect QXT P7 i1: No specific data.
- SureSelect QXT P7 i2: No specific data.
- SureSelect QXT P7 i3: No specific data.
- SureSelect QXT P7 i4: No specific data.
- SureSelect QXT P7 i5: No specific data.
- SureSelect QXT P7 i6: No specific data.
- SureSelect QXT P7 i7: No specific data.
- SureSelect QXT P7 i8: No specific data.
- SureSelect QXT P5 i13: No specific data.
- SureSelect QXT P5 i14: No specific data.
Section 11. Toxicological information

Inhalation

- DMSO
- SureSelect QXT Enzyme Mix
- SureSelect QXT Buffer
- Herculase II Fusion DNA
- Polymerase
- SureSelect QXT Index Read Primer
- SureSelect QXT Read Primer 1
- SureSelect QXT Read Primer 2
- SureSelect QXT P7 i1
- SureSelect QXT P7 i2
- SureSelect QXT P7 i3
- SureSelect QXT P7 i4
- SureSelect QXT P7 i5
- SureSelect QXT P7 i6
- SureSelect QXT P7 i7
- SureSelect QXT P7 i8
- SureSelect QXT P5 i13
- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer

Skin contact

- DMSO
- SureSelect QXT Enzyme Mix
- SureSelect QXT Buffer
- Herculase II Fusion DNA
- Polymerase
- SureSelect QXT Index Read Primer
- SureSelect QXT Read Primer 1
- SureSelect QXT Read Primer 2
- SureSelect QXT P7 i1
- SureSelect QXT P7 i2
- SureSelect QXT P7 i3
- SureSelect QXT P7 i4
- SureSelect QXT P7 i5
- SureSelect QXT P7 i6
- SureSelect QXT P7 i7
- SureSelect QXT P7 i8
- SureSelect QXT P5 i13
- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer

Ingestion

- DMSO
- SureSelect QXT Enzyme Mix
- SureSelect QXT Buffer
- Herculase II Fusion DNA
- Polymerase
- SureSelect QXT Index Read Primer
- SureSelect QXT Read Primer 1
- SureSelect QXT Read Primer 2
- SureSelect QXT P7 i1
- SureSelect QXT P7 i2
- SureSelect QXT P7 i3
- SureSelect QXT P7 i4
- SureSelect QXT P7 i5
- SureSelect QXT P7 i6
- SureSelect QXT P7 i7
- SureSelect QXT P7 i8
- SureSelect QXT P5 i13
- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer

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# Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</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>SureSelect QXT Index Read Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i9</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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

### Short term exposure

<table>
<thead>
<tr>
<th>Effects</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential immediate effects</td>
<td>Not available.</td>
</tr>
<tr>
<td>Potential delayed effects</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Long term exposure

<table>
<thead>
<tr>
<th>Effects</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential immediate effects</td>
<td>Not available.</td>
</tr>
<tr>
<td>Potential delayed effects</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Potential chronic health effects

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</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>SureSelect QXT Index Read Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i9</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>100 mM dNTP Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

## Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</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>SureSelect QXT Index Read Primer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Read Primer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i6</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i7</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i8</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P7 i9</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT P5 i13</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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# Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Mutagenicity</th>
<th>Teratogenicity</th>
<th>Developmental effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DMSO</strong></td>
<td><strong>DMSO</strong></td>
<td><strong>DMSO</strong></td>
</tr>
</tbody>
</table>

- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer
- No known significant effects or critical hazards.

- SureSelect QXT Enzyme Mix ILM
- SureSelect QXT Buffer
- Herculase II Fusion DNA Polymerase
- No known significant effects or critical hazards.

- SureSelect QXT Index Read Primer
- SureSelect QXT Read Primer 1
- SureSelect QXT Read Primer 2
- No known significant effects or critical hazards.

- SureSelect QXT P7 i1
- SureSelect QXT P7 i2
- SureSelect QXT P7 i3
- SureSelect QXT P7 i4
- SureSelect QXT P7 i5
- SureSelect QXT P7 i6
- SureSelect QXT P7 i7
- SureSelect QXT P7 i8
- SureSelect QXT P5 i13
- SureSelect QXT P5 i14
- 100 mM dNTP Mix
- Herculase II 5X Rxn Buffer
- No known significant effects or critical hazards.

- No known significant effects or critical hazards.
Section 11. Toxicological information

SureSelect QXT P7 i5
No known significant effects or critical hazards.
SureSelect QXT P7 i6
No known significant effects or critical hazards.
SureSelect QXT P7 i7
No known significant effects or critical hazards.
SureSelect QXT P7 i8
No known significant effects or critical hazards.
SureSelect QXT P5 i13
No known significant effects or critical hazards.
SureSelect QXT P5 i14
No known significant effects or critical hazards.
100 mM dNTP Mix
No known significant effects or critical hazards.
Herculase II 5X Rxn Buffer
No known significant effects or critical hazards.

Fertility effects:

SureSelect QXT Enzyme Mix ILM
No known significant effects or critical hazards.
SureSelect QXT Buffer
No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase
No known significant effects or critical hazards.
SureSelect QXT Index Read Primer
No known significant effects or critical hazards.
SureSelect QXT Read Primer 1
No known significant effects or critical hazards.
SureSelect QXT Read Primer 2
No known significant effects or critical hazards.
SureSelect QXT P7 i1
No known significant effects or critical hazards.
SureSelect QXT P7 i2
No known significant effects or critical hazards.
SureSelect QXT P7 i3
No known significant effects or critical hazards.
SureSelect QXT P7 i4
No known significant effects or critical hazards.
SureSelect QXT P7 i5
No known significant effects or critical hazards.
SureSelect QXT P7 i6
No known significant effects or critical hazards.
SureSelect QXT P7 i7
No known significant effects or critical hazards.
SureSelect QXT P7 i8
No known significant effects or critical hazards.
SureSelect QXT P5 i13
No known significant effects or critical hazards.
SureSelect QXT P5 i14
No known significant effects or critical hazards.
100 mM dNTP Mix
No known significant effects or critical hazards.
Herculase II 5X Rxn Buffer
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>SureSelect QXT Enzyme Mix ILM Oral</td>
<td>139784.9 mg/kg</td>
</tr>
<tr>
<td>Herculase II 5X Rxn Buffer Oral</td>
<td>274725.3 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>DMSO</td>
<td>Acute LC50 25000 ppm Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>Acute LC50 34000000 µg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 µl/L Marine water</td>
<td>Algae - Ulva lactuca</td>
<td>72 hours</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>Glycerol</td>
<td>Acute EC50 13370000 µg/l Fresh water</td>
<td>Algae - Navicula seminulum</td>
<td>96 hours</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### 12. Ecological information

#### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

#### 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>SureSelect QXT Enzyme Mix ILM</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herculase II Fusion DNA Polymerase</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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Section 12. Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP_{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO Dimethyl sulfoxide</td>
<td>-1.35</td>
<td>3.16</td>
<td>low</td>
</tr>
<tr>
<td>SureSelect QXT Enzyme Mix ILM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>-0.46</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>SureSelect QXT Buffer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Herculease 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>Herculease II 5X Rxn Buffer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trometamol</td>
<td>-1.56</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

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.

Date of issue : 01/19/2018
Section 14. Transport information

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

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

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

Section 15. Regulatory information

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

U.S. Federal regulations

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : 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

DMSO FLAMMABLE LIQUIDS - Category 4

SureSelect QXT Enzyme Mix ILM EYE IRRITATION - Category 2B

SureSelect QXT Buffer EYE IRRITATION - Category 2B

Herculase II Fusion DNA EYE IRRITATION - Category 2B

Polymerase EYE IRRITATION - Category 2B

SureSelect QXT Index Read Primer Not applicable.

SureSelect QXT Read Primer 1 Not applicable.

SureSelect QXT Read Primer 2 Not applicable.

SureSelect QXT P7 i1 Not applicable.

SureSelect QXT P7 i2 Not applicable.

SureSelect QXT P7 i3 Not applicable.

SureSelect QXT P7 i4 Not applicable.

SureSelect QXT P7 i5 Not applicable.

SureSelect QXT P7 i6 Not applicable.

SureSelect QXT P7 i7 Not applicable.

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**Section 15. Regulatory information**

**Composition/information on ingredients**

No products were found.

**State regulations**

- **Massachusetts**: The following components are listed: GLYCERINE MIST
- **New York**: None of the components are listed.
- **New Jersey**: The following components are listed: DIMETHYL SULFOXIDE; METHANE, SULFINYLBIISO-; 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.
- **Stockholm Convention on Persistent Organic Pollutants**: 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**: All components are listed or exempted.
- **Thailand**: Not determined.
- **Turkey**: Not determined.
- **United States**: Not determined.
- **Viet Nam**: Not determined.

**Date of issue**: 01/19/2018
Section 16. Other information

History

- Date of issue: 01/19/2018
- Date of previous issue: 04/27/2015.
- Version: 3

Indicates information that has changed from previously issued version.

Notice to reader

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