

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. | : <input checked="" type="checkbox"/> DMSO | 5190-7741 / 600260-53 |
| | SureSelect QXT Enzyme Mix ILM | 5190-7046 |
| | SureSelect QXT Buffer | 5190-7047 |
| | Herculase II Fusion DNA Polymerase | 5190-7742 / 600677-51 |
| | SureSelect QXT Index Read Primer | 5190-7051 |
| | SureSelect QXT Read Primer 1 | 5190-7049 |
| | SureSelect QXT Read Primer 2 | 5190-7050 |
| | SureSelect QXT P7 i1 | 5190-7091 |
| | SureSelect QXT P7 i2 | 5190-7092 |
| | SureSelect QXT P7 i3 | 5190-7093 |
| | SureSelect QXT P7 i4 | 5190-7094 |
| | SureSelect QXT P7 i5 | 5190-7095 |
| | SureSelect QXT P7 i6 | 5190-7060 |
| | SureSelect QXT P7 i7 | 5190-7257 |
| | SureSelect QXT P7 i8 | 5190-7258 |
| | SureSelect QXT P5 i13 | 5190-7259 |
| | SureSelect QXT P5 i14 | 5190-7260 |
| | 100 mM dNTP Mix | 5190-7740 / 200418-51 |
| | Herculase II 5X Rxn Buffer | 5190-7743 / 600675-52 |

Validation date : 1/19/2018

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

| | | |
|----------------------|--|------------------------------------|
| Material uses | : Analytical reagent. | |
| | <input checked="" type="checkbox"/> 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) |

1.3 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


Section 1. Identification

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

| | | |
|------------------------|---|--|
| OSHA/HCS status | :  MSO | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | SureSelect QXT Enzyme Mix ILM | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | SureSelect QXT Buffer | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | Herculase II Fusion DNA Polymerase | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | SureSelect QXT Index Read Primer | 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 Read Primer 1 | 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 Read Primer 2 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| | SureSelect QXT P7 i1 | 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 i2 | 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 i3 | 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 i4 | 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 i5 | 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. |

Section 2. Hazards identification

| | |
|----------------------------|--|
| | 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

Section 2. Hazards identification

Herculase II Fusion DNA

Polymerase

| | | |
|--|---|--|
| H320 | EYE IRRITATION - Category 2B | |
| Ingredients of unknown toxicity | <ul style="list-style-type: none"> ☒ SureSelect QXT Enzyme Mix ILM Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60% SureSelect QXT Buffer Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60% Herculase II Fusion DNA Polymerase Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10% 100 mM dNTP Mix Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10% Herculase II 5X Rxn Buffer Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% | |

2.2 GHS label elements

Signal word

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

Hazard statements

| | |
|------------------------------------|---|
| ☒ DMSO | H227 - Combustible liquid. H320 - Causes eye irritation. |
| SureSelect QXT Enzyme Mix ILM | H320 - Causes eye irritation. |
| SureSelect QXT Buffer | H320 - Causes eye irritation. |
| Herculase II Fusion DNA Polymerase | H320 - Causes eye irritation. |
| 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. |

Section 2. Hazards identification

| | |
|----------------------------|---|
| 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. |

Precautionary statements

Prevention



| | |
|------------------------------------|---|
| : DMSO | 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 Enzyme Mix ILM | 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

| | |
|------------------------------------|---|
| : DMSO | 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 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 |

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 | 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. |
| Storage | :  DMSO | P403 - Store in a well-ventilated place. P235 - Keep cool. |
| | SureSelect QXT Enzyme Mix ILM | Not applicable. |
| | SureSelect QXT Buffer | Not applicable. |
| | Herculase II Fusion DNA Polymerase | Not applicable. |
| | 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. |
| Disposal | :  DMSO | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | SureSelect QXT Enzyme Mix ILM | Not applicable. |
| | SureSelect QXT Buffer | Not applicable. |
| | Herculase II Fusion DNA Polymerase | Not applicable. |
| | 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. |

Section 2. Hazards identification

Supplemental label elements

| | |
|--|-----------------|
| 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. |
| : <input checked="" type="checkbox"/> DMSO | None known. |
| SureSelect QXT Enzyme Mix ILM | None known. |
| SureSelect QXT Buffer | None known. |
| Herculase II Fusion DNA 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 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

Hazards not otherwise classified

| | |
|--|-------------|
| : <input checked="" type="checkbox"/> DMSO | None known. |
| SureSelect QXT Enzyme Mix ILM | None known. |
| SureSelect QXT Buffer | None known. |
| Herculase II Fusion DNA 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 P5 i13 | None known. |
| SureSelect QXT P5 i14 | None known. |
| 100 mM dNTP Mix | None known. |
| Herculase II 5X Rxn Buffer | None known. |

Section 3. Composition/information on ingredients

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

| Ingredient name | % | CAS number |
|---|-----------|------------|
| DMSO Dimethyl sulfoxide | 100 | 67-68-5 |
| SureSelect QXT Enzyme Mix ILM Glycerol | ≥25 - ≤50 | 56-81-5 |
| Potassium chloride | ≤3 | 7447-40-7 |
| SureSelect QXT Buffer Glycerol | ≥50 - ≤75 | 56-81-5 |
| Herculase II Fusion DNA Polymerase Glycerol | ≥50 - ≤75 | 56-81-5 |
| Herculase II 5X Rxn Buffer Trometamol | ≤3 | 77-86-1 |

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

| | |
|------------------------------------|--|
| Herculase II Fusion DNA Polymerase | 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. 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 Index Read Primer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT Read Primer 1 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT Read Primer 2 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P7 i1 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P7 i2 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P7 i3 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P7 i4 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P7 i5 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P7 i6 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P7 i7 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P7 i8 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P5 i13 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| SureSelect QXT P5 i14 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. |

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

| | |
|------------------------------|---|
| Primer | position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT Read Primer 1 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT Read Primer 2 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P7 i1 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P7 i2 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P7 i3 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P7 i4 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P7 i5 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P7 i6 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P7 i7 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P7 i8 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P5 i13 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect QXT P5 i14 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| 100 mM dNTP Mix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Herculase II 5X Rxn Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |

Section 4. First aid measures

Skin contact

: DMSO

SureSelect QXT Enzyme Mix ILM

SureSelect QXT Buffer

Herculase II Fusion DNA
PolymeraseSureSelect 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

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.

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.

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.

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.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.


Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

| | | |
|------------------|--|---|
| | 100 mM dNTP Mix | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | Herculase II 5X Rxn Buffer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| 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. |
| | SureSelect QXT Enzyme Mix ILM | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| | SureSelect QXT Buffer | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| | Herculase II Fusion DNA Polymerase | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. |

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 |

Section 4. First aid measures

| | |
|----------------------------|--|
| SureSelect QXT P7 i5 | <p>medical attention if symptoms occur.</p> <p>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.</p> |
| SureSelect QXT P7 i6 | <p>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.</p> |
| SureSelect QXT P7 i7 | <p>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.</p> |
| SureSelect QXT P7 i8 | <p>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.</p> |
| SureSelect QXT P5 i13 | <p>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.</p> |
| SureSelect QXT P5 i14 | <p>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.</p> |
| 100 mM dNTP Mix | <p>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.</p> |
| Herculase II 5X Rxn Buffer | <p>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.</p> |

Section 4. First aid measures

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

| | | | |
|---------------------|-------------------|------------------------------------|---|
| Eye contact | : | DMSO | Causes eye irritation. |
| | | SureSelect QXT Enzyme Mix ILM | Causes eye irritation. |
| | | SureSelect QXT Buffer | Causes eye irritation. |
| | | Herculase II Fusion DNA Polymerase | Causes eye irritation. |
| | | 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. |
| | Inhalation | : | DMSO |
| | | 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. |
| Skin contact | | : | DMSO |
| | | 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. |

Section 4. First aid measures

| | | |
|------------------|------------------------------------|---|
| | 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. |
| 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. |

Over-exposure signs/symptoms

| | | |
|--------------------|------------------------------------|--|
| 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. |

Section 4. First aid measures

| | | |
|---------------------|------------------------------------|-------------------|
| | 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. |
| Inhalation | : DMSO | No specific data. |
| | SureSelect QXT Enzyme Mix ILM | No specific data. |
| | SureSelect QXT Buffer | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 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 | No specific data. |
| | Herculase II 5X Rxn Buffer | No specific data. |
| Skin contact | : DMSO | No specific data. |
| | SureSelect QXT Enzyme Mix ILM | No specific data. |
| | SureSelect QXT Buffer | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 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 | No specific data. |
| | Herculase II 5X Rxn Buffer | No specific data. |
| Ingestion | : DMSO | No specific data. |
| | SureSelect QXT Enzyme Mix ILM | No specific data. |
| | SureSelect QXT Buffer | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 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. |

Section 4. First aid measures

| | |
|----------------------------|-------------------|
| 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. |

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 |

Section 4. First aid measures

| | | |
|-----------------------------------|------------------------------------|--|
| | SureSelect QXT P5 i14 | ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | 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. |
| | 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. |
| 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 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. |

Section 4. First aid measures

| | |
|----------------------------|--|
| 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 | Use dry chemical, CO ₂ , water spray (fog) or foam. |
| SureSelect QXT Enzyme Mix ILM | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| Herculase II Fusion DNA Polymerase | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT Index Read Primer | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT Read Primer 1 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT Read Primer 2 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P7 i1 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P7 i2 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P7 i3 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P7 i4 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P7 i5 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P7 i6 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P7 i7 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P7 i8 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P5 i13 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect QXT P5 i14 | 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 | Do not use water jet. |
| | SureSelect QXT Enzyme Mix ILM | None known. |
| | SureSelect QXT Buffer | None known. |
| | Herculase II Fusion DNA 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 P5 i13 | None known. |
| | SureSelect QXT P5 i14 | None known. |
| | 100 mM dNTP Mix | None known. |
| | 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. |
| | | In a fire or if heated, a pressure increase will occur |

Section 5. Fire-fighting measures

Hazardous thermal decomposition products

| | | |
|------------------------------------|--------|--|
| 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 | | In a fire or if heated, a pressure increase will occur and the container may burst. |
| SureSelect QXT P5 i13 | | In a fire or if heated, a pressure increase will occur and the container may burst. |
| SureSelect QXT P5 i14 | | In a fire or if heated, a pressure increase will occur and the container may burst. |
| 100 mM dNTP Mix | | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Herculase II 5X Rxn Buffer | | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | : DMSO | Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides |
| SureSelect QXT Enzyme Mix | ILM | Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides |
| SureSelect QXT Buffer | | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| 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

:  DMSO

| | |
|------------------------------------|--|
| SureSelect QXT Enzyme Mix ILM | 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 Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Herculase II Fusion DNA Polymerase | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT Index Read Primer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT Read Primer 1 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT Read Primer 2 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT P7 i1 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT P7 i2 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT P7 i3 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT P7 i4 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT P7 i5 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT P7 i6 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| SureSelect QXT P7 i7 | 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. |

Section 5. Fire-fighting measures

| | | |
|---|------------------------------------|---|
| | | action shall be taken involving any personal risk or without suitable training. |
| | SureSelect QXT P7 i8 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect QXT P5 i13 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect QXT P5 i14 | 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. |
| | 100 mM dNTP Mix | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | Herculase II 5X Rxn Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : DMSO | 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 Enzyme Mix ILM | 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 Buffer | 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 Fusion DNA Polymerase | 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 Index Read Primer | 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 Read Primer 1 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | SureSelect QXT Read Primer 2 | 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 i1 | 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 i2 | 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 i3 | Fire-fighters should wear appropriate protective |

Section 5. Fire-fighting measures

| | |
|----------------------------|---|
| SureSelect QXT P7 i4 | equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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

:  MSO

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.

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

SureSelect QXT Enzyme Mix ILM

Section 6. Accidental release measures

| | |
|------------------------------------|---|
| SureSelect QXT Buffer | <p>ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p> <p>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.</p> |
| Herculase II Fusion DNA Polymerase | <p>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.</p> |
| SureSelect QXT Index Read Primer | <p>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.</p> |
| SureSelect QXT Read Primer 1 | <p>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.</p> |
| SureSelect QXT Read Primer 2 | <p>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.</p> |
| SureSelect QXT P7 i1 | <p>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.</p> |
| SureSelect QXT P7 i2 | <p>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.</p> |
| SureSelect QXT P7 i3 | <p>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.</p> |
| SureSelect QXT P7 i4 | <p>No action shall be taken involving any personal risk or without suitable training. Evacuate</p> |

Section 6. Accidental release measures

| | |
|----------------------------|---|
| SureSelect QXT P7 i5 | surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. 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

| | | |
|--------------------------------------|---------------|---|
| SureSelect QXT P5 i13 | | the information in "For non-emergency personnel". 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 P5 i14 | | 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". |
| 100 mM dNTP Mix | | 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 5X Rxn 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". |
| 6.2 Environmental precautions | : DMSO | |
| 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

| | |
|----------------------------|---|
| SureSelect QXT P7 i2 | 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 i3 | 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 i4 | 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 i5 | 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 i6 | 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 i7 | 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 i8 | 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 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). |

6.3 Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Methods for cleaning up :  DMSO

| | |
|------------------------------------|--|
| | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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 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. |

Section 6. Accidental release measures

| | |
|----------------------------|---|
| SureSelect QXT P7 i4 | disposal container. Dispose of via a licensed waste disposal contractor. 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

Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT Read Primer 1

Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT Read Primer 2

Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT P7 i1

Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT P7 i2

Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT P7 i3

Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT P7 i4

Put on appropriate personal protective equipment (see Section 8).


SureSelect QXT P7 i5

Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT P7 i6

Put on appropriate personal protective equipment

Section 7. Handling and storage

| | |
|---|---|
| | (see Section 8). |
| SureSelect QXT P7 i7 | Put on appropriate personal protective equipment (see Section 8). |
| SureSelect QXT P7 i8 | Put on appropriate personal protective equipment (see Section 8). |
| SureSelect QXT P5 i13 | Put on appropriate personal protective equipment (see Section 8). |
| SureSelect QXT P5 i14 | Put on appropriate personal protective equipment (see Section 8). |
| 100 mM dNTP Mix | Put on appropriate personal protective equipment (see Section 8). |
| Herculase II 5X Rxn Buffer | Put on appropriate personal protective equipment (see Section 8). |
| Advice on general occupational hygiene | :  DMSO |
| | 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. |
| 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 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 |

Section 7. Handling and storage

SureSelect QXT P7 i1

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

| | |
|----------------------------|---|
| 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 | 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. |
| Herculase II 5X Rxn Buffer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

:  MSO

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.

| | |
|-------------------------------|--|
| SureSelect QXT Enzyme Mix ILM | 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 Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from |

Section 7. Handling and storage

| | |
|------------------------------------|---|
| Herculase II Fusion DNA Polymerase | 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. 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

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. 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

| | |
|----------------------------|--|
| SureSelect QXT P7 i7 | 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 i8 | 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 P5 i13 | 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 P5 i14 | 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. |
| 100 mM dNTP Mix | 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. |
| Herculase II 5X Rxn Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food |

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

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

Industrial sector specific solutions

| | |
|------------------------------------|-----------------|
| : DMSO | Not applicable. |
| SureSelect QXT Enzyme Mix ILM | Not applicable. |
| SureSelect QXT Buffer | Not applicable. |
| Herculase II Fusion DNA Polymerase | Not applicable. |
| 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. |

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| DMSO Dimethyl sulfoxide | AIHA WEEL (United States, 10/2011). TWA: 250 ppm 8 hours. |
| SureSelect QXT Enzyme Mix ILM Glycerol | OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| Potassium chloride | None. |
| SureSelect QXT Buffer Glycerol | OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| Herculase II Fusion DNA Polymerase Glycerol | OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| Herculase II 5X Rxn Buffer Trometamol | None. |

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 | : <input checked="" type="checkbox"/> MSO | 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 P5 i13 | Not available. |
| | | SureSelect QXT P5 i14 | Not available. |
| | | 100 mM dNTP Mix | Not available. |
| | | Herculase II 5X Rxn Buffer | Not available. |
| | | Odor | : |
| 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. | | |
| Odor threshold | : | | |
| | | 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. | | |

Section 9. Physical and chemical properties

| | | |
|----------------------|------------------------------------|-----------------|
| | 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. |
| pH | : DMSO | Not available. |
| | SureSelect QXT Enzyme Mix ILM | 7.9 |
| | SureSelect QXT Buffer | 7.5 |
| | Herculase II Fusion DNA Polymerase | 7.7 to 8.7 |
| | SureSelect QXT Index Read Primer | 7 |
| | SureSelect QXT Read Primer 1 | 7 |
| | SureSelect QXT Read Primer 2 | 7 |
| | SureSelect QXT P7 i1 | 7 |
| | SureSelect QXT P7 i2 | 7 |
| | SureSelect QXT P7 i3 | 7 |
| | SureSelect QXT P7 i4 | 7 |
| | SureSelect QXT P7 i5 | 7 |
| | SureSelect QXT P7 i6 | 7 |
| | SureSelect QXT P7 i7 | 7 |
| | SureSelect QXT P7 i8 | 7 |
| | SureSelect QXT P5 i13 | 7 |
| | SureSelect QXT P5 i14 | 7 |
| | 100 mM dNTP Mix | 7.5 |
| | Herculase II 5X Rxn Buffer | 10 |
| Melting point | : DMSO | 18.5°C (65.3°F) |
| | SureSelect QXT Enzyme Mix ILM | Not available. |
| | SureSelect QXT Buffer | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | SureSelect QXT Index Read Primer | 0°C (32°F) |
| | SureSelect QXT Read Primer 1 | 0°C (32°F) |
| | SureSelect QXT Read Primer 2 | 0°C (32°F) |
| | SureSelect QXT P7 i1 | 0°C (32°F) |
| | SureSelect QXT P7 i2 | 0°C (32°F) |
| | SureSelect QXT P7 i3 | 0°C (32°F) |
| | SureSelect QXT P7 i4 | 0°C (32°F) |
| | SureSelect QXT P7 i5 | 0°C (32°F) |
| | SureSelect QXT P7 i6 | 0°C (32°F) |
| | SureSelect QXT P7 i7 | 0°C (32°F) |
| | SureSelect QXT P7 i8 | 0°C (32°F) |
| | SureSelect QXT P5 i13 | 0°C (32°F) |
| | SureSelect QXT P5 i14 | 0°C (32°F) |
| | 100 mM dNTP Mix | Not available. |
| | Herculase II 5X Rxn Buffer | Not available. |
| Boiling point | : DMSO | 189°C (372.2°F) |
| | SureSelect QXT Enzyme Mix ILM | Not available. |
| | SureSelect QXT Buffer | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | SureSelect QXT Index Read Primer | 100°C (212°F) |
| | SureSelect QXT Read Primer 1 | 100°C (212°F) |
| | SureSelect QXT Read Primer 2 | 100°C (212°F) |
| | SureSelect QXT P7 i1 | 100°C (212°F) |
| | SureSelect QXT P7 i2 | 100°C (212°F) |
| | SureSelect QXT P7 i3 | 100°C (212°F) |

Section 9. Physical and chemical properties

| | | |
|-------------------------|--|--|
| | SureSelect QXT P7 i4 | 100°C (212°F) |
| | SureSelect QXT P7 i5 | 100°C (212°F) |
| | SureSelect QXT P7 i6 | 100°C (212°F) |
| | SureSelect QXT P7 i7 | 100°C (212°F) |
| | SureSelect QXT P7 i8 | 100°C (212°F) |
| | SureSelect QXT P5 i13 | 100°C (212°F) |
| | SureSelect QXT P5 i14 | 100°C (212°F) |
| | 100 mM dNTP Mix | Not available. |
| | Herculase II 5X Rxn Buffer | Not available. |
| Flash point | : <input checked="" type="checkbox"/> DMSO | Closed cup: 87°C (188.6°F) Open cup: 87°C (188.6°F) |
| | 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. |
| Evaporation rate | : <input checked="" type="checkbox"/> DMSO | 0.026 (butyl acetate = 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. |

Section 9. Physical and chemical properties

| | | | |
|----------------------------------|---|------------------------------------|-----------------|
| Flammability (solid, gas) | : | DMSO | Not applicable. |
| | | SureSelect QXT Enzyme Mix ILM | Not applicable. |
| | | SureSelect QXT Buffer | Not applicable. |
| | | Herculase II Fusion DNA Polymerase | Not applicable. |
| | | 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. |
| | Lower and upper explosive (flammable) limits | : | DMSO |
| | | 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. |
| Vapor pressure | | : | DMSO |
| | | 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. |

Section 9. Physical and chemical properties

| | | |
|-------------------------|------------------------------------|--|
| | 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. |
| 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 | Easily soluble in the following materials: cold water and hot water. |
| | 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 |

Section 9. Physical and chemical properties

| | |
|------------------------------|--|
| SureSelect QXT Read Primer 2 | and hot water. 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

| | |
|------------------------------------|----------------|
| : DMSO | -1.35 |
| 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. |


Auto-ignition temperature

| | |
|------------------------------------|-------------------------------|
| : DMSO | 300 to 302°C (572 to 575.6°F) |
| 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. |

Section 9. Physical and chemical properties

| | | |
|----------------------------------|------------------------------------|--|
| | 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. |
| Decomposition temperature | : DMSO | 140 to 189°C (284 to 372.2°F) |
| | 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. |
| Viscosity | : DMSO | Dynamic (room temperature): 2.14 mPa·s (2.14 cP) |
| | 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. |

Section 10. Stability and reactivity

| | | |
|--------------------------------|--|--|
| 10.1 Reactivity | :  DMSO | |
| | SureSelect QXT Enzyme Mix ILM | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| | Herculase II Fusion DNA Polymerase | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT Index Read Primer | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT Read Primer 1 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT Read Primer 2 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P7 i1 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P7 i2 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P7 i3 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P7 i4 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P7 i5 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P7 i6 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P7 i7 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P7 i8 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P5 i13 | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect QXT P5 i14 | No specific test data related to reactivity available for this product or its ingredients. |
| | 100 mM dNTP Mix | No specific test data related to reactivity available for this product or its ingredients. |
| | Herculase II 5X Rxn Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | :  DMSO | |
| | SureSelect QXT Enzyme Mix ILM | The product is stable. |
| | SureSelect QXT Buffer | The product is stable. |
| | Herculase II Fusion DNA Polymerase | The product is stable. |
| | SureSelect QXT Index Read Primer | The product is stable. |
| | SureSelect QXT Read Primer 1 | The product is stable. |
| | SureSelect QXT Read Primer 2 | The product is stable. |
| | SureSelect QXT P7 i1 | The product is stable. |
| | SureSelect QXT P7 i2 | The product is stable. |
| | SureSelect QXT P7 i3 | The product is stable. |
| | SureSelect QXT P7 i4 | The product is stable. |
| | SureSelect QXT P7 i5 | The product is stable. |
| | SureSelect QXT P7 i6 | The product is stable. |
| | SureSelect QXT P7 i7 | The product is stable. |
| | SureSelect QXT P7 i8 | The product is stable. |
| | SureSelect QXT P5 i13 | The product is stable. |
| | SureSelect QXT P5 i14 | The product is stable. |

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions

| | | |
|--|---------------|---|
| 100 mM dNTP Mix | | The product is stable. |
| Herculase II 5X Rxn Buffer | | The product is stable. |
| 10.3 Possibility of hazardous reactions | : DMSO | |
| SureSelect QXT Enzyme Mix ILM | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT Buffer | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Herculase II Fusion DNA Polymerase | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT Index Read Primer | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT Read Primer 1 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT Read Primer 2 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P7 i1 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P7 i2 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P7 i3 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P7 i4 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P7 i5 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P7 i6 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P7 i7 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P7 i8 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P5 i13 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect QXT P5 i14 | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 100 mM dNTP Mix | | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Herculase II 5X Rxn Buffer | | Under normal conditions of storage and use, hazardous reactions will not occur. |

10.4 Conditions to avoid

| | | |
|------------------------------------|---------------|--|
| 10.4 Conditions to avoid | : DMSO | |
| | | 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 | | No specific data. |
| SureSelect QXT Buffer | | No specific data. |
| Herculase II Fusion DNA Polymerase | | No specific data. |
| 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. |

Section 10. Stability and reactivity

| | |
|----------------------------|-------------------|
| 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. |

Section 10. Stability and reactivity

| | |
|------------------------------------|---|
| Herculase II Fusion DNA Polymerase | produced. 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](#)

Section 11. Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|--------------------------|------------|----------------------------|----------|
| DMSO Dimethyl sulfoxide | LD50 Dermal LD50 Oral | Rat Rat | 40000 mg/kg 14500 mg/kg | - - |
| SureSelect QXT Enzyme Mix ILM Glycerol Potassium chloride | LD50 Oral LD50 Oral | Rat Rat | 12600 mg/kg 2600 mg/kg | - - |
| SureSelect QXT Buffer Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Herculase II Fusion DNA Polymerase Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Herculase II 5X Rxn Buffer Trometamol | LD50 Dermal LD50 Oral | Rat Rat | >5000 mg/kg 5000 mg/kg | - - |

Irritation/Corrosion

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

Section 11. Toxicological information

| | | | | | |
|--|------------------------|--------|---|----------------|---|
| | Skin - Severe irritant | Rabbit | - | 500 milligrams | - |
|--|------------------------|--------|---|----------------|---|

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.


Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|------------|-------------------|------------------------------|
|  Herculase II 5X Rxn Buffer Trometamol | Category 3 | Not applicable. | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

:  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

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Section 11. Toxicological information

| | | | |
|------------------------------------|---|------------------------------------|---|
| Eye contact | : | DMSO | Causes eye irritation. |
| | | SureSelect QXT Enzyme Mix ILM | Causes eye irritation. |
| | | SureSelect QXT Buffer | Causes eye irritation. |
| | | Herculase II Fusion DNA Polymerase | Causes eye irritation. |
| | | 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. |
| | | Inhalation | : |
| 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. | | |
| Skin contact | : | | |
| | | 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. |

Section 11. Toxicological information

| | | |
|----------------------------|---|---|
| Ingestion | 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. |
| | : 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

| | | |
|---------------------|------------------------------------|-------------------|
| | 100 mM dNTP Mix | No specific data. |
| | Herculase II 5X Rxn Buffer | No specific data. |
| Inhalation | : DMSO | No specific data. |
| | SureSelect QXT Enzyme Mix ILM | No specific data. |
| | SureSelect QXT Buffer | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 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 | No specific data. |
| | Herculase II 5X Rxn Buffer | No specific data. |
| Skin contact | : DMSO | No specific data. |
| | SureSelect QXT Enzyme Mix ILM | No specific data. |
| | SureSelect QXT Buffer | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 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 | No specific data. |
| | Herculase II 5X Rxn Buffer | No specific data. |
| Ingestion | : DMSO | No specific data. |
| | SureSelect QXT Enzyme Mix ILM | No specific data. |
| | SureSelect QXT Buffer | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 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. |

Section 11. Toxicological information

| | |
|----------------------------|-------------------|
| 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. |

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General

| | |
|------------------------------------|---|
| ☑ 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. |

Carcinogenicity

| | |
|------------------------------------|---|
| ☑ 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. |

Section 11. Toxicological information

| | | |
|------------------------------|------------------------------------|---|
| | 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. |
| Mutagenicity | : 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. |
| Teratogenicity | : 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. |
| Developmental effects | : 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. |

Section 11. Toxicological information

| | | |
|----------------------------|---|---|
| Fertility effects | 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. |
| | 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. | |

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|--|----------------|
| SureSelect QXT Enzyme Mix ILM Oral | 139784.9 mg/kg |
| Herculase II 5X Rxn Buffer Oral | 274725.3 mg/kg |

Section 12. Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|--------------------------------------|-----------------------------------|----------|
| DMSO Dimethyl sulfoxide | Acute LC50 25000 ppm Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 34000000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 100 ul/L Marine water | Algae - Ulva lactuca | 72 hours |
| SureSelect QXT Enzyme Mix ILM Glycerol Potassium chloride | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute EC50 1337000 µg/l Fresh water | Algae - Navicula seminulum | 96 hours |

Section 12. Ecological information

| | | | |
|---|------------------------------------|---|----------|
| SureSelect QXT Buffer Glycerol | Acute EC50 9.24 g/L Fresh water | Algae - Desmodesmus subspicatus | 72 hours |
| | Acute EC50 141460 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 12.92 mg/l Fresh water | Crustaceans - Pseudosida ramosa - Neonate | 48 hours |
| | Acute LC50 880 mg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Herculase II Fusion DNA Polymerase Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| Herculase II 5X Rxn Buffer Trometamol | Acute EC50 >980 mg/l Fresh water | Daphnia | 48 hours |
| | Acute NOEC 520 mg/l Fresh water | Daphnia | 48 hours |

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|--|----------------|------|----------|
| SureSelect QXT Enzyme Mix ILM Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| SureSelect QXT Buffer Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| Herculase II Fusion DNA Polymerase Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| SureSelect QXT Enzyme Mix ILM Potassium chloride | - | - | Readily |

12.3 Bioaccumulative potential

Section 12. Ecological information

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|------|-----------|
| DMSO Dimethyl sulfoxide | -1.35 | 3.16 | low |
| SureSelect QXT Enzyme Mix ILM Glycerol | -1.76 | - | low |
| Potassium chloride | -0.46 | - | low |
| SureSelect QXT Buffer Glycerol | -1.76 | - | low |
| Herculase II Fusion DNA Polymerase Glycerol | -1.76 | - | low |
| Herculase II 5X Rxn Buffer Trometamol | -1.56 | - | low |

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) PAIR:** Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : 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 : | <input checked="" type="checkbox"/> 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 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. |

Section 15. Regulatory information

| | |
|----------------------------|-----------------|
| SureSelect QXT P7 i8 | |
| 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. |

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Europe** : Not determined.
- Japan** : **Japan inventory (ENCS):** Not determined.
Japan inventory (ISHL): 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.

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

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.