

# SAFETY DATA SHEET

SureSelect QXT Library Prep Kit -NSQ-Box 2-16 Reactions, Part Number 5500-0126

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

### 1.1 Product identifier

<b>Product name</b>	: SureSelect QXT Library Prep Kit -NSQ-Box 2-16 Reactions, Part Number 5500-0126	
<b>CAS number</b>	: DMSO	67-68-5
	Herculase II 5X Rxn Buffer	Not applicable.
	100 mM dNTP Mix	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	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.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	Not applicable.
	SureSelect QXT Index 1 Read Primer	Not applicable.
	SureSelect QXT Index 2 Read Primer	Not applicable.
<b>Part no. (chemical kit)</b>	: 5500-0126	
<b>Part no.</b>	: DMSO	5190-7741
	Herculase II 5X Rxn Buffer	5190-7743
	100 mM dNTP Mix	5190-7740
	Herculase II Fusion DNA Polymerase	5190-7742
	SureSelect QXT Enzyme Mix ILM	5190-7046
	SureSelect QXT Buffer	5190-7047
	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
	SureSelect QXT Read Primer 1	5190-7948
	SureSelect QXT Read Primer 2	5190-7050
	SureSelect QXT Index 1 Read Primer	5191-4061
	SureSelect QXT Index 2 Read Primer	5191-4063

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

**Identified uses** : Analytical reagent.

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

DMSO	1.02 ml
Herculase II 5X Rxn Buffer	0.35 ml (32 reactions)
100 mM dNTP Mix	0.02 ml (32 reactions)
Herculase II Fusion DNA Polymerase	0.04 ml (32 reactions)
SureSelect QXT Enzyme Mix ILM	0.04 ml (16 reactions)
SureSelect QXT Buffer	0.3 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	0.020 ml (16 reactions)
SureSelect QXT P5 i14	0.020 ml (16 reactions)
SureSelect QXT Read Primer 1	0.265 ml (16 reactions)
SureSelect QXT Read Primer 2	0.265 ml (16 reactions)
SureSelect QXT Index 1 Read Primer	0.4 ml (16 reactions)
SureSelect QXT Index 2 Read Primer	0.4 ml (16 reactions)

**Uses advised against** : None known.

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

Agilent Technologies Deutschland GmbH  
 Hewlett-Packard-Str. 8  
 76337 Waldbronn  
 Germany  
 0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

**1.4 Emergency telephone number**

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

<b>Product definition</b>	:	DMSO	Mono-constituent substance
		Herculase II 5X Rxn Buffer	Mixture
		100 mM dNTP Mix	Mixture
		Herculase II Fusion DNA Polymerase	Mixture
		SureSelect QXT Enzyme Mix ILM	Mixture
		SureSelect QXT Buffer	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
		SureSelect QXT Read	Mixture

**SECTION 2: Hazards identification**

Primer 1  
 SureSelect QXT Read Mixture  
 Primer 2  
 SureSelect QXT Index 1 Mixture  
 Read Primer  
 SureSelect QXT Index 2 Mixture  
 Read Primer

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

Not classified.

DMSO	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Herculase II 5X Rxn Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
100 mM dNTP Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Herculase II Fusion DNA Polymerase	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT Enzyme Mix ILM	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P7 i1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P7 i2	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P7 i3	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P7 i4	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P7 i5	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P7 i6	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P7 i7	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P7 i8	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P5 i13	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT P5 i14	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT Read Primer 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT Read Primer 2	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT Index 1 Read Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect QXT Index 2 Read Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** :

Herculase II 5X Rxn Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
100 mM dNTP Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
Herculase II Fusion DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
SureSelect QXT Enzyme Mix ILM	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%

**SECTION 2: Hazards identification**

	SureSelect QXT Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
<b>Ingredients of unknown ecotoxicity</b>	: 100 mM dNTP Mix	Contains 5.7% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements****Signal word**

: DMSO	No signal word.
Herculase II 5X Rxn Buffer	No signal word.
100 mM dNTP Mix	No signal word.
Herculase II Fusion DNA Polymerase	No signal word.
SureSelect QXT Enzyme Mix ILM	No signal word.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	No signal word.
SureSelect QXT Read Primer 2	No signal word.
SureSelect QXT Index 1 Read Primer	No signal word.
SureSelect QXT Index 2 Read Primer	No signal word.

**Hazard statements**

: DMSO	No known significant effects or critical hazards.
Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
100 mM dNTP Mix	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	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.
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.
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 Index 1 Read Primer	No known significant effects or critical hazards.

**SECTION 2: Hazards identification**

SureSelect QXT Index 2  
Read Primer

No known significant effects or critical hazards.

**Precautionary statements****Prevention**

: DMSO Not applicable.  
 Herculase II 5X Rxn Buffer Not applicable.  
 100 mM dNTP Mix Not applicable.  
 Herculase II Fusion DNA Polymerase Not applicable.  
 SureSelect QXT Enzyme Mix ILM Not applicable.  
 SureSelect QXT Buffer 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.  
 SureSelect QXT Read Primer 1 Not applicable.  
 SureSelect QXT Read Primer 2 Not applicable.  
 SureSelect QXT Index 1 Read Primer Not applicable.  
 SureSelect QXT Index 2 Read Primer Not applicable.

**Response**

: DMSO Not applicable.  
 Herculase II 5X Rxn Buffer Not applicable.  
 100 mM dNTP Mix Not applicable.  
 Herculase II Fusion DNA Polymerase Not applicable.  
 SureSelect QXT Enzyme Mix ILM Not applicable.  
 SureSelect QXT Buffer 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.  
 SureSelect QXT Read Primer 1 Not applicable.  
 SureSelect QXT Read Primer 2 Not applicable.  
 SureSelect QXT Index 1 Read Primer Not applicable.  
 SureSelect QXT Index 2 Read Primer Not applicable.

**SECTION 2: Hazards identification**

<b>Storage</b>	:	DMSO	Not applicable.	
		Herculase II 5X Rxn Buffer	Not applicable.	
		100 mM dNTP Mix	Not applicable.	
		Herculase II Fusion DNA Polymerase	Not applicable.	
		SureSelect QXT Enzyme Mix ILM	Not applicable.	
		SureSelect QXT Buffer	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.	
		SureSelect QXT Read Primer 1	Not applicable.	
		SureSelect QXT Read Primer 2	Not applicable.	
		SureSelect QXT Index 1 Read Primer	Not applicable.	
		SureSelect QXT Index 2 Read Primer	Not applicable.	
	<b>Disposal</b>	:	DMSO	Not applicable.
			Herculase II 5X Rxn Buffer	Not applicable.
			100 mM dNTP Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.	
		SureSelect QXT Enzyme Mix ILM	Not applicable.	
		SureSelect QXT Buffer	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.	
		SureSelect QXT Read Primer 1	Not applicable.	
		SureSelect QXT Read Primer 2	Not applicable.	
		SureSelect QXT Index 1 Read Primer	Not applicable.	
		SureSelect QXT Index 2 Read Primer	Not applicable.	
<b>Supplemental label elements</b>		:	DMSO	Not applicable.
			Herculase II 5X Rxn Buffer	Safety data sheet available on request.
			100 mM dNTP Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.	
		SureSelect QXT Enzyme Mix ILM	Not applicable.	
		SureSelect QXT Buffer	Not applicable.	

**SECTION 2: Hazards identification**

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.
SureSelect QXT Read Primer 1	Not applicable.
SureSelect QXT Read Primer 2	Not applicable.
SureSelect QXT Index 1 Read Primer	Not applicable.
SureSelect QXT Index 2 Read Primer	Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

: DMSO	Not applicable.
Herculase II 5X Rxn Buffer	Not applicable.
100 mM dNTP Mix	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
SureSelect QXT Enzyme Mix ILM	Not applicable.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	Not applicable.
SureSelect QXT Read Primer 2	Not applicable.
SureSelect QXT Index 1 Read Primer	Not applicable.
SureSelect QXT Index 2 Read Primer	Not applicable.

**Special packaging requirements****Tactile warning of danger**

: DMSO	Not applicable.
Herculase II 5X Rxn Buffer	Not applicable.
100 mM dNTP Mix	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
SureSelect QXT Enzyme Mix ILM	Not applicable.
SureSelect QXT Buffer	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.

**SECTION 2: Hazards identification**

SureSelect QXT P5 i13 Not applicable.  
 SureSelect QXT P5 i14 Not applicable.  
 SureSelect QXT Read Not applicable.  
 Primer 1  
 SureSelect QXT Read Not applicable.  
 Primer 2  
 SureSelect QXT Index 1 Not applicable.  
 Read Primer  
 SureSelect QXT Index 2 Not applicable.  
 Read Primer

**2.3 Other hazards**

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

	PBT	P	B	T	vPvB	vP	vB
<b>DMSO</b>	No	N/A	No	No	No	N/A	No

Herculase II 5X Rxn Buffer This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 100 mM dNTP Mix This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 Herculase II Fusion DNA Polymerase This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT Enzyme Mix ILM This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT Buffer This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P7 i1 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P7 i2 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P7 i3 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P7 i4 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P7 i5 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P7 i6 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P7 i7 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P7 i8 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P5 i13 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT P5 i14 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT Read Primer 1 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT Read Primer 2 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT Index 1 Read Primer This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SureSelect QXT Index 2 Read Primer This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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<b>Other hazards which do not result in classification</b>	<b>:</b> DMSO	None known.
	Herculase II 5X Rxn Buffer	None known.
	100 mM dNTP Mix	None known.
	Herculase II Fusion DNA Polymerase	None known.
	SureSelect QXT Enzyme Mix ILM	None known.
	SureSelect QXT Buffer	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.
	SureSelect QXT Read Primer 1	None known.
	SureSelect QXT Read Primer 2	None known.
	SureSelect QXT Index 1 Read Primer	None known.
	SureSelect QXT Index 2 Read Primer	None known.

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	<b>:</b> DMSO	Mono-constituent substance
	Herculase II 5X Rxn Buffer	Mixture
	100 mM dNTP Mix	Mixture
	Herculase II Fusion DNA Polymerase	Mixture
	SureSelect QXT Enzyme Mix ILM	Mixture
	SureSelect QXT Buffer	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
	SureSelect QXT Read Primer 1	Mixture
	SureSelect QXT Read Primer 2	Mixture
	SureSelect QXT Index 1 Read Primer	Mixture
	SureSelect QXT Index 2 Read Primer	Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
DMSO dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	100	Not classified.	-	[1]
Herculase II 5X Rxn Buffer					

### SECTION 3: Composition/information on ingredients

trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
Hexadecan- 1-ol, ethoxylated	EC: 500-014-1 CAS: 9004-95-9	<2.5	Aquatic Chronic 2, H411	-	[1]
<b>Herculase II Fusion DNA Polymerase</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
<b>SureSelect QXT Enzyme Mix ILM</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
<b>SureSelect QXT Buffer</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
			<b>See Section 16 for the full text of the H statements declared above.</b>		

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>	
DMSO	[1] Constituent
Herculase II 5X Rxn Buffer	[1] Substance classified with a health or environmental hazard
Herculase II Fusion DNA Polymerase	[1] Substance with a workplace exposure limit
SureSelect QXT Enzyme Mix ILM	[1] Substance with a workplace exposure limit
SureSelect QXT Buffer	[1] Substance with a workplace exposure limit

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Eye contact</b>	: DMSO	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.
	100 mM dNTP Mix	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 Fusion DNA Polymerase	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 Enzyme Mix ILM	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 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.

**SECTION 4: First aid measures**

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. 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 Index 1 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 Index 2 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.
<b>Inhalation</b> : DMSO	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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.
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 Fusion DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT Enzyme Mix ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**SECTION 4: First aid measures**

SureSelect QXT Buffer	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.
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 Index 1 Read Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT Index 2 Read Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**

: DMSO	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.
100 mM dNTP Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Herculase II Fusion DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT Enzyme Mix ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**SECTION 4: First aid measures**

SureSelect QXT P7 i1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P7 i2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P7 i3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P7 i4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P7 i5	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P7 i6	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P7 i7	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P7 i8	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P5 i13	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P5 i14	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT Read Primer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT Read Primer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT Index 1 Read Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT Index 2 Read Primer	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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Herculase II 5X Rxn Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
100 mM dNTP Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Herculase II Fusion DNA Polymerase	Wash out mouth with water. 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 Enzyme	Wash out mouth with water. If material has been swallowed

**SECTION 4: First aid measures**

Mix ILM	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 Buffer	Wash out mouth with water. 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. 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. 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. 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. 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 i5	Wash out mouth with water. 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 i6	Wash out mouth with water. 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 i7	Wash out mouth with water. 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 i8	Wash out mouth with water. 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 P5 i13	Wash out mouth with water. 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 P5 i14	Wash out mouth with water. 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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**SECTION 4: First aid measures**

SureSelect QXT Read Primer 2	Wash out mouth with water. 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 Index 1 Read Primer	Wash out mouth with water. 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 Index 2 Read Primer	Wash out mouth with water. 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.
<b>Protection of first-aiders</b> : DMSO	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.
100 mM dNTP Mix	No action shall be taken involving any personal risk or without suitable training.
Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT Enzyme Mix ILM	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT Buffer	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.
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.
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 Index 1 Read Primer	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT Index 2 Read Primer	No action shall be taken involving any personal risk or without suitable training.

**4.2 Most important symptoms and effects, both acute and delayed**

Potential acute health effects

**SECTION 4: First aid measures**

<b>Eye contact</b>	:	DMSO	No known significant effects or critical hazards.	
		Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.	
		100 mM dNTP Mix	No known significant effects or critical hazards.	
		Herculase II Fusion DNA Polymerase	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.	
		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.	
		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 Index 1 Read Primer	No known significant effects or critical hazards.	
		SureSelect QXT Index 2 Read Primer	No known significant effects or critical hazards.	
	<b>Inhalation</b>	:	DMSO	No known significant effects or critical hazards.
			Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
			100 mM dNTP Mix	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	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.	
		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.	
		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 Index 1 Read Primer	No known significant effects or critical hazards.	
		SureSelect QXT Index 2 Read Primer	No known significant effects or critical hazards.	
<b>Skin contact</b>		:	DMSO	No known significant effects or critical hazards.
			Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
			100 mM dNTP Mix	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	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.	

**SECTION 4: First aid measures**

	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.
	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 Index 1 Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer	No known significant effects or critical hazards.
<b>Ingestion</b>	: DMSO	No known significant effects or critical hazards.
	Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
	100 mM dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	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.
	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.
	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 Index 1 Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer	No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

<b>Eye contact</b>	: DMSO	No specific data.
	Herculase II 5X Rxn Buffer	No specific data.
	100 mM dNTP Mix	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	SureSelect QXT Enzyme Mix ILM	No specific data.
	SureSelect QXT Buffer	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.

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	SureSelect QXT P5 i13	No specific data.
	SureSelect QXT P5 i14	No specific data.
	SureSelect QXT Read	No specific data.
	Primer 1	
	SureSelect QXT Read	No specific data.
	Primer 2	
	SureSelect QXT Index 1	No specific data.
	Read Primer	
	SureSelect QXT Index 2	No specific data.
	Read Primer	
<b>Inhalation</b>	: DMSO	No specific data.
	Herculase II 5X Rxn	No specific data.
	Buffer	
	100 mM dNTP Mix	No specific data.
	Herculase II Fusion DNA	No specific data.
	Polymerase	
	SureSelect QXT Enzyme	No specific data.
	Mix ILM	
	SureSelect QXT Buffer	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.
	SureSelect QXT Read	No specific data.
	Primer 1	
	SureSelect QXT Read	No specific data.
	Primer 2	
	SureSelect QXT Index 1	No specific data.
	Read Primer	
	SureSelect QXT Index 2	No specific data.
	Read Primer	
<b>Skin contact</b>	: DMSO	No specific data.
	Herculase II 5X Rxn	No specific data.
	Buffer	
	100 mM dNTP Mix	No specific data.
	Herculase II Fusion DNA	No specific data.
	Polymerase	
	SureSelect QXT Enzyme	No specific data.
	Mix ILM	
	SureSelect QXT Buffer	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.
	SureSelect QXT Read	No specific data.
	Primer 1	
	SureSelect QXT Read	No specific data.
	Primer 2	
	SureSelect QXT Index 1	No specific data.
	Read Primer	
	SureSelect QXT Index 2	No specific data.

**SECTION 4: First aid measures**

	Read Primer	
<b>Ingestion</b>	: DMSO	No specific data.
	Herculase II 5X Rxn	No specific data.
	Buffer	
	100 mM dNTP Mix	No specific data.
	Herculase II Fusion DNA	No specific data.
	Polymerase	
	SureSelect QXT Enzyme	No specific data.
	Mix ILM	
	SureSelect QXT Buffer	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.
	SureSelect QXT Read	No specific data.
	Primer 1	
	SureSelect QXT Read	No specific data.
	Primer 2	
	SureSelect QXT Index 1	No specific data.
	Read Primer	
	SureSelect QXT Index 2	No specific data.
	Read Primer	

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

<b>Notes to physician</b>	: DMSO	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Herculase II 5X Rxn	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.
	Buffer	
	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 Fusion DNA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Polymerase	
	SureSelect QXT Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Mix ILM	
	SureSelect QXT Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i5	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i6	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i7	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i8	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P5 i13	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P5 i14	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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	SureSelect QXT Read Primer 1	immediately if large quantities have been ingested or inhaled. 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 Index 1 Read Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Index 2 Read Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: DMSO	No specific treatment.
	Herculase II 5X Rxn Buffer	No specific treatment.
	100 mM dNTP Mix	No specific treatment.
	Herculase II Fusion DNA Polymerase	No specific treatment.
	SureSelect QXT Enzyme Mix ILM	No specific treatment.
	SureSelect QXT Buffer	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.
	SureSelect QXT Read Primer 1	No specific treatment.
	SureSelect QXT Read Primer 2	No specific treatment.
	SureSelect QXT Index 1 Read Primer	No specific treatment.
	SureSelect QXT Index 2 Read Primer	No specific treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: DMSO	Use an extinguishing agent suitable for the surrounding fire.
	Herculase II 5X Rxn Buffer	Use an extinguishing agent suitable for the surrounding fire.
	100 mM dNTP Mix	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 Enzyme Mix ILM	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect QXT Buffer	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.
	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 Index 1	Use an extinguishing agent suitable for the surrounding fire.

**SECTION 5: Firefighting measures**

	Read Primer	
	SureSelect QXT Index 2	Use an extinguishing agent suitable for the surrounding fire.
	Read Primer	
<b>Unsuitable extinguishing media</b>	DMSO	None known.
	Herculase II 5X Rxn Buffer	None known.
	100 mM dNTP Mix	None known.
	Herculase II Fusion DNA Polymerase	None known.
	SureSelect QXT Enzyme Mix ILM	None known.
	SureSelect QXT Buffer	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.
	SureSelect QXT Read Primer 1	None known.
	SureSelect QXT Read Primer 2	None known.
	SureSelect QXT Index 1	None known.
	Read Primer	
	SureSelect QXT Index 2	None known.
	Read Primer	

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

<b>Hazards from the substance or mixture</b>	DMSO	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.
	100 mM dNTP Mix	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 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.
	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.
	SureSelect QXT P7 i7	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

**SECTION 5: Firefighting measures**

**Hazardous combustion products**

SureSelect QXT Read Primer 1	container may burst. 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 Index 1 Read Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Index 2 Read Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>:</b> DMSO	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
Herculase II 5X Rxn Buffer	Decomposition products may include the following materials:  carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
100 mM dNTP Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
Herculase II Fusion DNA Polymerase	Decomposition products may include the following materials:  carbon dioxide carbon monoxide
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
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.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	No specific data.
SureSelect QXT Index 1 Read Primer	No specific data.
SureSelect QXT Index 2 Read Primer	No specific data.

**5.3 Advice for firefighters**

**SECTION 5: Firefighting measures**

<b>Special precautions for fire-fighters</b>	: DMSO	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.
	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 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 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.
	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.
	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.
	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.
	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 Index 1 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 Index 2 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.

**SECTION 5: Firefighting measures**

<b>Special protective equipment for fire-fighters</b>	: DMSO	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	SureSelect QXT P7 i3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	SureSelect QXT P7 i4	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 5: Firefighting measures**

SureSelect QXT P7 i6	conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect QXT Index 1 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect QXT Index 2 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	: DMSO	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	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 spilt 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 spilt material. Put on appropriate personal protective equipment.
	Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect QXT Enzyme Mix ILM	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect QXT Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect QXT P7 i1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect QXT P7 i2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect QXT P7 i3	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect QXT P7 i4	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect QXT P7 i5	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt 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 spilt 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.

**SECTION 6: Accidental release measures**

	Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt 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 spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.
SureSelect QXT Read Primer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect QXT Read Primer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect QXT Index 1 Read Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect QXT Index 2 Read Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b> : DMSO	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Herculase II 5X Rxn Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
100 mM dNTP Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Herculase II Fusion DNA Polymerase	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT Enzyme Mix ILM	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i1	If specialised clothing is required to deal with the spillage,

**SECTION 6: Accidental release measures**

	take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i3	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i4	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i5	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i6	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i7	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i8	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i13	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i14	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT Read Primer 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT Read Primer 2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT Index 1 Read Primer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT Index 2 Read Primer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions**

: DMSO

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Herculase II 5X Rxn Buffer

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

**SECTION 6: Accidental release measures**

100 mM dNTP Mix	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Herculase II Fusion DNA Polymerase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT Enzyme Mix ILM	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i3	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i4	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i5	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i6	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i7	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i8	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i13	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i14	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT Read Primer 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT Read Primer 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**SECTION 6: Accidental release measures**

SureSelect QXT Index 1 Read Primer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT Index 2 Read Primer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**6.3 Methods and material for containment and cleaning up****Methods for cleaning up : DMSO**

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.
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 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 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.
SureSelect QXT P7 i1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect QXT P7 i2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect QXT P7 i3	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect QXT P7 i4	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect QXT P7 i5	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively,

## SECTION 6: Accidental release measures

	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.
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 Index 1 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 Index 2 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.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
 See Section 8 for information on appropriate personal protective equipment.  
 See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	:	DMSO	Put on appropriate personal protective equipment (see Section 8).
		Herculase II 5X Rxn Buffer	Put on appropriate personal protective equipment (see Section 8).
		100 mM dNTP Mix	Put on appropriate personal protective equipment (see Section 8).
		Herculase II Fusion DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).

**SECTION 7: Handling and storage**

SureSelect QXT Enzyme Mix ILM	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT Buffer	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 (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).
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 Index 1 Read Primer	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT Index 2 Read Primer	Put on appropriate personal protective equipment (see Section 8).
: 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.
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.
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 Fusion DNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT Enzyme Mix ILM	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

**Advice on general occupational hygiene**

**SECTION 7: Handling and storage**

	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 i1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT P7 i2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT P7 i3	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT P7 i4	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT P7 i5	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT P7 i6	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT P7 i7	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT P7 i8	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.

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SureSelect QXT Read Primer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT Read Primer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT Index 1 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 Index 2 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.

**7.2 Conditions for safe storage, including any incompatibilities****Storage**

: DMSO

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

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 and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Herculase II Fusion DNA Polymerase

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

**SECTION 7: Handling and storage**

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

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	<p>container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SureSelect QXT P7 i6	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SureSelect QXT P7 i7	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SureSelect QXT P7 i8	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SureSelect QXT P5 i13	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SureSelect QXT P5 i14	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SureSelect QXT Read Primer 1	<p>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</p>

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SureSelect QXT Read Primer 2	been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect QXT Index 1 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect QXT Index 2 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**7.3 Specific end use(s)**

**Recommendations**

: DMSO	Industrial applications, Professional applications.
Herculase II 5X Rxn Buffer	Industrial applications, Professional applications.
100 mM dNTP Mix	Industrial applications, Professional applications.
Herculase II Fusion DNA Polymerase	Industrial applications, Professional applications.
SureSelect QXT Enzyme Mix ILM	Industrial applications, Professional applications.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	Industrial applications, Professional applications.
SureSelect QXT Read Primer 2	Industrial applications, Professional applications.
SureSelect QXT Index 1 Read Primer	Industrial applications, Professional applications.

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	SureSelect QXT Index 2 Read Primer	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	DMSO	Not available.
	Herculase II 5X Rxn Buffer	Not available.
	100 mM dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	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.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	Not available.
	SureSelect QXT Index 1 Read Primer	Not available.
	SureSelect QXT Index 2 Read Primer	Not available.

**SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Herculase II Fusion DNA Polymerase Glycerol	<b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist
SureSelect QXT Enzyme Mix ILM Glycerol	<b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist
SureSelect QXT Buffer Glycerol	<b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist

Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures**

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**SECTION 8: Exposure controls/personal protection****DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
<b>DMSO</b> Dimethyl sulfoxide	DNEL	Long term Oral	1.67 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3.13 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	17.67 mg/ m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	56 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	75 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	178 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	356 mg/kg bw/day	Workers	Systemic
<b>Herculase II 5X Rxn Buffer</b> Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	29 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	83.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	117.5 mg/ m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/ kg bw/day	Workers	Systemic
Hexadecan-1-ol, ethoxylated	DNEL	Long term Oral	0.75 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.96 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	11.1 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	37.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	105 mg/kg bw/day	Workers	Systemic

**PNECs**

No PNECs available

**8.2 Exposure controls**

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

**Individual protection measures**

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

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

**Skin protection**

**SECTION 8: Exposure controls/personal 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.
- 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.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**9.1 Information on basic physical and chemical properties****Appearance**

<b>Physical state</b>	:	DMSO	Liquid. [Clear.]
		Herculase II 5X Rxn Buffer	Liquid.
		100 mM dNTP Mix	Liquid.
		Herculase II Fusion DNA Polymerase	Liquid.
		SureSelect QXT Enzyme Mix ILM	Liquid.
		SureSelect QXT Buffer	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.
		SureSelect QXT Read Primer 1	Liquid.
		SureSelect QXT Read Primer 2	Liquid.
		SureSelect QXT Index 1 Read Primer	Liquid.
		SureSelect QXT Index 2 Read Primer	Liquid.
<b>Colour</b>	:	DMSO	Colourless.
		Herculase II 5X Rxn Buffer	Not available.
		100 mM dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.

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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.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.
SureSelect QXT Index 1 Read Primer	Not available.
SureSelect QXT Index 2 Read Primer	Not available.

**Odour**

: DMSO	Odourless. [Slight]
Herculase II 5X Rxn Buffer	Not available.
100 mM dNTP Mix	Not available.
Herculase II Fusion DNA Polymerase	Not available.
SureSelect QXT Enzyme Mix ILM	Not available.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.
SureSelect QXT Index 1 Read Primer	Not available.
SureSelect QXT Index 2 Read Primer	Not available.

**Odour threshold**

: DMSO	Not available.
Herculase II 5X Rxn Buffer	Not available.
100 mM dNTP Mix	Not available.
Herculase II Fusion DNA Polymerase	Not available.
SureSelect QXT Enzyme Mix ILM	Not available.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	Not available.

**SECTION 9: Physical and chemical properties**

	SureSelect QXT Read Primer 2	Not available.
	SureSelect QXT Index 1 Read Primer	Not available.
	SureSelect QXT Index 2 Read Primer	Not available.
<b>Melting point/freezing point</b>	: DMSO	18.5°C
	Herculase II 5X Rxn Buffer	Not available.
	100 mM dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	0°C
	SureSelect QXT P7 i2	0°C
	SureSelect QXT P7 i3	0°C
	SureSelect QXT P7 i4	0°C
	SureSelect QXT P7 i5	0°C
	SureSelect QXT P7 i6	0°C
	SureSelect QXT P7 i7	0°C
	SureSelect QXT P7 i8	0°C
	SureSelect QXT P5 i13	0°C
	SureSelect QXT P5 i14	0°C
	SureSelect QXT Read Primer 1	0°C
	SureSelect QXT Read Primer 2	0°C
	SureSelect QXT Index 1 Read Primer	0°C
	SureSelect QXT Index 2 Read Primer	0°C
<b>Initial boiling point and boiling range</b>	: DMSO	189°C
	Herculase II 5X Rxn Buffer	Not available.
	100 mM dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	100°C
	SureSelect QXT P7 i2	100°C
	SureSelect QXT P7 i3	100°C
	SureSelect QXT P7 i4	100°C
	SureSelect QXT P7 i5	100°C
	SureSelect QXT P7 i6	100°C
	SureSelect QXT P7 i7	100°C
	SureSelect QXT P7 i8	100°C
	SureSelect QXT P5 i13	100°C
	SureSelect QXT P5 i14	100°C
	SureSelect QXT Read Primer 1	100°C
	SureSelect QXT Read Primer 2	100°C
	SureSelect QXT Index 1 Read Primer	100°C
	SureSelect QXT Index 2 Read Primer	100°C

**SECTION 9: Physical and chemical properties**

<b>Flammability</b>	:	DMSO	Not applicable.
		Herculase II 5X Rxn Buffer	Not applicable.
		100 mM dNTP Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		SureSelect QXT Enzyme Mix ILM	Not applicable.
		SureSelect QXT Buffer	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.
		SureSelect QXT Read Primer 1	Not applicable.
		SureSelect QXT Read Primer 2	Not applicable.
		SureSelect QXT Index 1 Read Primer	Not applicable.
		SureSelect QXT Index 2 Read Primer	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	:	DMSO	Lower: 2.6% Upper: 28.5%
		Herculase II 5X Rxn Buffer	Not available.
		100 mM dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	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.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index 1 Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer	Not available.
<b>Flash point</b>	:	DMSO	Closed cup: 87°C [ASTM D 93] Open cup: 87°C
		Herculase II 5X Rxn Buffer	Not available.
		100 mM dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Enzyme Mix ILM	Not available.

**SECTION 9: Physical and chemical properties**

SureSelect QXT Buffer 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.  
 SureSelect QXT Read Not available.  
 Primer 1  
 SureSelect QXT Read Not available.  
 Primer 2  
 SureSelect QXT Index 1 Not available.  
 Read Primer  
 SureSelect QXT Index 2 Not available.  
 Read Primer

Ingredient name	Closed cup		Open cup	
	°C	Method	°C	Method
<b>Herculase II Fusion DNA Polymerase</b> glycerol	-	-	177	-
<b>SureSelect QXT Enzyme Mix ILM</b> glycerol	-	-	177	-
<b>SureSelect QXT Buffer</b> glycerol	-	-	177	-

Auto-ignition temperature

: DMSO 300 to 302°C

Ingredient name	°C	Method
<b>Herculase II Fusion DNA Polymerase</b> glycerol	370	-
<b>SureSelect QXT Enzyme Mix ILM</b> glycerol	370	-
<b>SureSelect QXT Buffer</b> glycerol	370	-

Decomposition temperature

: DMSO 140 to 189°C  
 Herculase II 5X Rxn Buffer Not available.  
 100 mM dNTP Mix Not available.  
 Herculase II Fusion DNA Polymerase Not available.  
 SureSelect QXT Enzyme Mix ILM Not available.  
 SureSelect QXT Buffer Not available.  
 SureSelect QXT P7 i1 Not available.  
 SureSelect QXT P7 i2 Not available.  
 SureSelect QXT P7 i3 Not available.

**SECTION 9: Physical and chemical properties**

	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.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	Not available.
	SureSelect QXT Index 1 Read Primer	Not available.
	SureSelect QXT Index 2 Read Primer	Not available.
<b>pH</b>	: DMSO	Not available.
	Herculase II 5X Rxn Buffer	10
	100 mM dNTP Mix	7.5
	Herculase II Fusion DNA Polymerase	8.2
	SureSelect QXT Enzyme Mix ILM	7 to 7.5
	SureSelect QXT Buffer	7 to 7.5
	SureSelect QXT P7 i1	7 to 7.5
	SureSelect QXT P7 i2	7 to 7.5
	SureSelect QXT P7 i3	7 to 7.5
	SureSelect QXT P7 i4	7 to 7.5
	SureSelect QXT P7 i5	7 to 7.5
	SureSelect QXT P7 i6	7 to 7.5
	SureSelect QXT P7 i7	7 to 7.5
	SureSelect QXT P7 i8	7
	SureSelect QXT P5 i13	7 to 7.5
	SureSelect QXT P5 i14	7 to 7.5
	SureSelect QXT Read Primer 1	7 to 7.5
	SureSelect QXT Read Primer 2	7 to 7.5
	SureSelect QXT Index 1 Read Primer	7 to 7.5
	SureSelect QXT Index 2 Read Primer	7 to 7.5

<b>Viscosity</b>	: DMSO	Dynamic: 2.14 mPa·s
	Herculase II 5X Rxn Buffer	Not available.
	100 mM dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	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.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read	Not available.

**SECTION 9: Physical and chemical properties**

Primer 2  
 SureSelect QXT Index 1 Not available.  
 Read Primer  
 SureSelect QXT Index 2 Not available.  
 Read Primer

**Solubility(ies)**

<b>Media</b>	<b>Result</b>
<b>DMSO</b>	
water	Soluble
<b>Herculase II 5X Rxn Buffer</b>	
water	Soluble
<b>100 mM dNTP Mix</b>	
water	Soluble
<b>Herculase II Fusion DNA Polymerase</b>	
water	Soluble
<b>SureSelect QXT Enzyme Mix ILM</b>	
water	Soluble
<b>SureSelect QXT Buffer</b>	
water	Soluble
<b>SureSelect QXT P7 i1</b>	
water	Soluble
<b>SureSelect QXT P7 i2</b>	
water	Soluble
<b>SureSelect QXT P7 i3</b>	
water	Soluble
<b>SureSelect QXT P7 i4</b>	
water	Soluble
<b>SureSelect QXT P7 i5</b>	
water	Soluble
<b>SureSelect QXT P7 i6</b>	
water	Soluble
<b>SureSelect QXT P7 i7</b>	
water	Soluble
<b>SureSelect QXT P7 i8</b>	
water	Soluble
<b>SureSelect QXT P5 i13</b>	
water	Soluble
<b>SureSelect QXT P5 i14</b>	
water	Soluble
<b>SureSelect QXT Read Primer 1</b>	
water	Soluble
<b>SureSelect QXT Read Primer 2</b>	
water	Soluble
<b>SureSelect QXT Index 1 Read Primer</b>	
water	Soluble
<b>SureSelect QXT Index 2 Read Primer</b>	
water	Soluble

**Partition coefficient: n-octanol/water**

DMSO	-1.35
Herculase II 5X Rxn Buffer	Not applicable.
100 mM dNTP Mix	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
SureSelect QXT Enzyme Mix ILM	Not applicable.
SureSelect QXT Buffer	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 9: Physical and chemical properties**

SureSelect QXT P7 i8 Not applicable.  
 SureSelect QXT P5 i13 Not applicable.  
 SureSelect QXT P5 i14 Not applicable.  
 SureSelect QXT Read Not applicable.  
 Primer 1  
 SureSelect QXT Read Not applicable.  
 Primer 2  
 SureSelect QXT Index 1 Not applicable.  
 Read Primer  
 SureSelect QXT Index 2 Not applicable.  
 Read Primer

**Vapour pressure** : DMSO 0.056 kPa (0.42 mm Hg) [EU A.4]

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>Herculase II 5X Rxn Buffer</b>						
water	17.5	2.3	-	92.258	12.3	-
trometamol	<0.00075006	<0.0001	-	-	-	-
<b>100 mM dNTP Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>Herculase II Fusion DNA Polymerase</b>						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>SureSelect QXT Enzyme Mix ILM</b>						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>SureSelect QXT Buffer</b>						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>SureSelect QXT P7 i1</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect QXT P7 i2</b>						
water	17.5	2.3	-	92.258	12.3	-

**SECTION 9: Physical and chemical properties**

<b>SureSelect QXT P7 i3</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT P7 i4</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT P7 i5</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT P7 i6</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT P7 i7</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT P7 i8</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT P5 i13</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT P5 i14</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT Read Primer 1</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT Read Primer 2</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect QXT Index 1 Read Primer</b>							
water	17.5	2.3	-	92.258	12.3	-	

**SECTION 9: Physical and chemical properties**

<b>SureSelect QXT Index 2 Read Primer</b>						
water	17.5	2.3	-	92.258	12.3	-

**Evaporation rate** :

DMSO	0.026 (butyl acetate = 1)
Herculase II 5X Rxn Buffer	Not available.
100 mM dNTP Mix	Not available.
Herculase II Fusion DNA Polymerase	Not available.
SureSelect QXT Enzyme Mix ILM	Not available.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.
SureSelect QXT Index 1 Read Primer	Not available.
SureSelect QXT Index 2 Read Primer	Not available.

**Relative density** :

DMSO	1.1
Herculase II 5X Rxn Buffer	Not available.
100 mM dNTP Mix	Not available.
Herculase II Fusion DNA Polymerase	Not available.
SureSelect QXT Enzyme Mix ILM	Not available.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.
SureSelect QXT Index 1 Read Primer	Not available.
SureSelect QXT Index 2 Read Primer	Not available.

**SECTION 9: Physical and chemical properties**

<b>Vapour density</b>	:	DMSO	2.7 [Air = 1]
		Herculase II 5X Rxn Buffer	Not available.
		100 mM dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	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.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index 1 Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer	Not available.

<b>Explosive properties</b>	:	DMSO	Not available.
		Herculase II 5X Rxn Buffer	Not available.
		100 mM dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	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.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index 1 Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer	Not available.

<b>Oxidising properties</b>	:	DMSO	Not available.
		Herculase II 5X Rxn Buffer	Not available.
		100 mM dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i1	Not available.

**SECTION 9: Physical and chemical properties**

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.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.
SureSelect QXT Index 1 Read Primer	Not available.
SureSelect QXT Index 2 Read Primer	Not available.

**Particle characteristics**

<b>Median particle size</b>	:	DMSO	Not applicable.
		Herculase II 5X Rxn Buffer	Not applicable.
		100 mM dNTP Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		SureSelect QXT Enzyme Mix ILM	Not applicable.
		SureSelect QXT Buffer	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.
		SureSelect QXT Read Primer 1	Not applicable.
		SureSelect QXT Read Primer 2	Not applicable.
		SureSelect QXT Index 1 Read Primer	Not applicable.
		SureSelect QXT Index 2 Read Primer	Not applicable.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	:	DMSO	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.
		100 mM dNTP Mix	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 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.

**SECTION 10: Stability and reactivity**

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.
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 Index 1 Read Primer	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT Index 2 Read Primer	No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability**

: DMSO	The product is stable.
Herculase II 5X Rxn Buffer	The product is stable.
100 mM dNTP Mix	The product is stable.
Herculase II Fusion DNA Polymerase	The product is stable.
SureSelect QXT Enzyme Mix ILM	The product is stable.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	The product is stable.
SureSelect QXT Read Primer 2	The product is stable.
SureSelect QXT Index 1 Read Primer	The product is stable.
SureSelect QXT Index 2 Read Primer	The product is stable.

**SECTION 10: Stability and reactivity****10.3 Possibility of hazardous reactions**

: DMSO	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.
100 mM dNTP Mix	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 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.
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.
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 Index 1 Read Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT Index 2 Read Primer	Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid**

: DMSO	No specific data.
Herculase II 5X Rxn Buffer	No specific data.
100 mM dNTP Mix	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect QXT Enzyme Mix ILM	No specific data.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read	No specific data.

**SECTION 10: Stability and reactivity**

Primer 2  
 SureSelect QXT Index 1 No specific data.  
 Read Primer  
 SureSelect QXT Index 2 No specific data.  
 Read Primer

**10.5 Incompatible materials**

: DMSO May react or be incompatible with oxidising materials.  
 Herculase II 5X Rxn Buffer May react or be incompatible with oxidising materials.  
 100 mM dNTP Mix May react or be incompatible with oxidising materials.  
 Herculase II Fusion DNA Polymerase May react or be incompatible with oxidising materials.  
 SureSelect QXT Enzyme Mix ILM May react or be incompatible with oxidising materials.  
 SureSelect QXT Buffer May react or be incompatible with oxidising materials.  
 SureSelect QXT P7 i1 May react or be incompatible with oxidising materials.  
 SureSelect QXT P7 i2 May react or be incompatible with oxidising materials.  
 SureSelect QXT P7 i3 May react or be incompatible with oxidising materials.  
 SureSelect QXT P7 i4 May react or be incompatible with oxidising materials.  
 SureSelect QXT P7 i5 May react or be incompatible with oxidising materials.  
 SureSelect QXT P7 i6 May react or be incompatible with oxidising materials.  
 SureSelect QXT P7 i7 May react or be incompatible with oxidising materials.  
 SureSelect QXT P7 i8 May react or be incompatible with oxidising materials.  
 SureSelect QXT P5 i13 May react or be incompatible with oxidising materials.  
 SureSelect QXT P5 i14 May react or be incompatible with oxidising materials.  
 SureSelect QXT Read Primer 1 May react or be incompatible with oxidising materials.  
 SureSelect QXT Read Primer 2 May react or be incompatible with oxidising materials.  
 SureSelect QXT Index 1 Read Primer May react or be incompatible with oxidising materials.  
 SureSelect QXT Index 2 Read Primer May react or be incompatible with oxidising materials.

**10.6 Hazardous decomposition products**

: DMSO 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.  
 100 mM dNTP Mix Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 Herculase II Fusion DNA Polymerase 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.  
 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.

## SECTION 10: Stability and reactivity

SureSelect QXT P5 i14	decomposition products should not be produced. 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 Index 1 Read Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT Index 2 Read Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>DMSO</b> Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
<b>Herculase II 5X Rxn Buffer</b> Trometamol Hexadecan-1-ol, ethoxylated	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>DMSO</b> Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
<b>Herculase II 5X Rxn Buffer</b> Hexadecan-1-ol, ethoxylated	2500	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>DMSO</b> Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Herculase II 5X Rxn Buffer</b> Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

## SECTION 11: Toxicological information

**Conclusion/Summary** : Not available.

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

Not available.

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

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure**

DMSO	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Herculase II 5X Rxn Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
100 mM dNTP Mix	Not available.
Herculase II Fusion DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
SureSelect QXT Enzyme Mix ILM	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
SureSelect QXT Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
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.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.
SureSelect QXT Index 1 Read Primer	Not available.
SureSelect QXT Index 2 Read Primer	Not available.

**Potential acute health effects**

**Inhalation**

DMSO	No known significant effects or critical hazards.
Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
100 mM dNTP Mix	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	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.
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.
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 Index 1	No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

	Read Primer	
	SureSelect QXT Index 2	No known significant effects or critical hazards.
	Read Primer	
<b>Ingestion</b>	: DMSO	No known significant effects or critical hazards.
	Herculase II 5X Rxn	No known significant effects or critical hazards.
	Buffer	
	100 mM dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA	No known significant effects or critical hazards.
	Polymerase	
	SureSelect QXT Enzyme	No known significant effects or critical hazards.
	Mix ILM	
	SureSelect QXT Buffer	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.
	SureSelect QXT Read	No known significant effects or critical hazards.
	Primer 1	
	SureSelect QXT Read	No known significant effects or critical hazards.
	Primer 2	
	SureSelect QXT Index 1	No known significant effects or critical hazards.
	Read Primer	
	SureSelect QXT Index 2	No known significant effects or critical hazards.
	Read Primer	
<b>Skin contact</b>	: DMSO	No known significant effects or critical hazards.
	Herculase II 5X Rxn	No known significant effects or critical hazards.
	Buffer	
	100 mM dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA	No known significant effects or critical hazards.
	Polymerase	
	SureSelect QXT Enzyme	No known significant effects or critical hazards.
	Mix ILM	
	SureSelect QXT Buffer	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.
	SureSelect QXT Read	No known significant effects or critical hazards.
	Primer 1	
	SureSelect QXT Read	No known significant effects or critical hazards.
	Primer 2	
	SureSelect QXT Index 1	No known significant effects or critical hazards.
	Read Primer	
	SureSelect QXT Index 2	No known significant effects or critical hazards.
	Read Primer	

**SECTION 11: Toxicological information**

<b>Eye contact</b>	:	DMSO	No known significant effects or critical hazards.
		Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
		100 mM dNTP Mix	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	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.
		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.
		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 Index 1 Read Primer	No known significant effects or critical hazards.
		SureSelect QXT Index 2 Read Primer	No known significant effects or critical hazards.

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

<b>Inhalation</b>	:	DMSO	No specific data.
		Herculase II 5X Rxn Buffer	No specific data.
		100 mM dNTP Mix	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	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.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index 1 Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer	No specific data.
<b>Ingestion</b>	:	DMSO	No specific data.
		Herculase II 5X Rxn Buffer	No specific data.
		100 mM dNTP Mix	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.

**SECTION 11: Toxicological information**

SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	No specific data.
SureSelect QXT Index 1 Read Primer	No specific data.
SureSelect QXT Index 2 Read Primer	No specific data.

**Skin contact**

: DMSO	No specific data.
Herculase II 5X Rxn Buffer	No specific data.
100 mM dNTP Mix	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect QXT Enzyme Mix ILM	No specific data.
SureSelect QXT Buffer	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.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	No specific data.
SureSelect QXT Index 1 Read Primer	No specific data.
SureSelect QXT Index 2 Read Primer	No specific data.

**Eye contact**

: DMSO	No specific data.
Herculase II 5X Rxn Buffer	No specific data.
100 mM dNTP Mix	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect QXT Enzyme Mix ILM	No specific data.
SureSelect QXT Buffer	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 11: Toxicological information**

SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT Read	No specific data.
Primer 1	
SureSelect QXT Read	No specific data.
Primer 2	
SureSelect QXT Index 1	No specific data.
Read Primer	
SureSelect QXT Index 2	No specific data.
Read Primer	

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Not available.

<b>General</b>	:	DMSO	No known significant effects or critical hazards.
		Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
		100 mM dNTP Mix	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	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.
		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.
		SureSelect QXT Read	No known significant effects or critical hazards.
		Primer 1	
		SureSelect QXT Read	No known significant effects or critical hazards.
		Primer 2	
		SureSelect QXT Index 1	No known significant effects or critical hazards.
		Read Primer	
		SureSelect QXT Index 2	No known significant effects or critical hazards.
		Read Primer	
<b>Carcinogenicity</b>	:	DMSO	No known significant effects or critical hazards.
		Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
		100 mM dNTP Mix	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	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.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

	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.
	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 Index 1 Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: DMSO	No known significant effects or critical hazards.
	Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
	100 mM dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	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.
	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.
	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 Index 1 Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: DMSO	No known significant effects or critical hazards.
	Herculase II 5X Rxn Buffer	No known significant effects or critical hazards.
	100 mM dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	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.
	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.

**SECTION 11: Toxicological information**

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

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

Not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
<b>DMSO</b> Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water Acute LC50 34000000 µg/l Fresh water Chronic NOEC 100 ul/L Marine water Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Pimephales promelas</i> Algae - <i>Ulva lactuca</i> Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 96 hours 72 hours 21 days
<b>Herculase II 5X Rxn Buffer</b> Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i> - Adult	48 hours

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
<b>DMSO</b> Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-
<b>Herculase II 5X Rxn Buffer</b> Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>DMSO</b> Dimethyl sulfoxide	-	-	Not readily
<b>Herculase II 5X Rxn Buffer</b> Trometamol	-	-	Readily
Hexadecan-1-ol, ethoxylated	-	-	Readily

**SECTION 12: Ecological information**

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>DMSO</b> Dimethyl sulfoxide	-1.35	3.16	Low
<b>Herculase II 5X Rxn Buffer</b> Trometamol	-2.31	-	Low
Hexadecan-1-ol, ethoxylated	>6.06	-	High

**12.4 Mobility in soil**

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

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
<b>DMSO</b> Dimethyl sulfoxide	No	N/A	No	No	No	N/A	No

**12.6 Endocrine disrupting properties**

Not available.

**12.7 Other adverse effects**

No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
<b>14.1 UN number or ID number</b>	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-

**SECTION 14: Transport information**

14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

**Additional information**

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

**14.7 Transport in bulk according to IMO instruments** : Not available.

**SECTION 15: Regulatory information**

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

Product / Ingredient name	Identifiers	Designation [Usage]
Herculase II 5X Rxn Buffer Ammonium sulphate		65

<b>Label</b>	:	DMSO	Not applicable.
		Herculase II 5X Rxn Buffer	Not applicable.
		100 mM dNTP Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		SureSelect QXT Enzyme Mix ILM	Not applicable.
		SureSelect QXT Buffer	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.
		SureSelect QXT Read Primer 1	Not applicable.
		SureSelect QXT Read Primer 2	Not applicable.
		SureSelect QXT Index 1 Read Primer	Not applicable.

## SECTION 15: Regulatory information

SureSelect QXT Index 2      Not applicable.  
Read Primer

### Other EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Listed

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Persistent Organic Pollutants

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### International regulations

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

Not listed.

#### Montreal Protocol

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.  
**Eurasian Economic Union** : **Russian Federation inventory:** Not determined.  
**Japan** : **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** Not determined.  
**New Zealand** : Not determined.  
**Philippines** : Not determined.  
**Republic of Korea** : Not determined.  
**Taiwan** : Not determined.  
**Thailand** : Not determined.  
**Turkey** : Not determined.  
**United States** : Not determined.  
**Viet Nam** : Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

**SECTION 16: Other information**

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Not classified.	

**Full text of abbreviated H statements**

<b>Herculase II 5X Rxn Buffer</b> H315 H319 H411	Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
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**Full text of classifications [CLP/GHS]**

<b>Herculase II 5X Rxn Buffer</b> Aquatic Chronic 2 Eye Irrit. 2 Skin Irrit. 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2
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**Date of issue/ Date of revision** : 31/01/2024  
**Date of previous issue** : No previous validation  
**Version** : 1

**Notice to reader**

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