

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

Product name	: SureSelect QXT Library Prep Kit -NSQ-Box 2-16 Reactions, Part Number 5500-0126	
CAS number	: <input checked="" type="checkbox"/> 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.
Part no. (chemical kit)	: 5500-0126	
Part no.	: 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.

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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 LDA UK Ltd.
5500 Lakeside Cheadle Royal Business Park,
Cheadle, Cheshire, SK8 3GR
United Kingdom
Tel: +44 (0) 345 712 5292

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**

Product definition	:	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

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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

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

Not classified.

DMSO	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Herculase II 5X Rxn Buffer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
100 mM dNTP Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Herculase II Fusion DNA Polymerase	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT Enzyme Mix ILM	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT Buffer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P7 i1	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P7 i2	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P7 i3	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P7 i4	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P7 i5	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P7 i6	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P7 i7	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P7 i8	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P5 i13	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT P5 i14	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT Read Primer 1	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT Read Primer 2	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT Index 1 Read Primer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect QXT Index 2 Read Primer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 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%

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SureSelect QXT Enzyme Mix ILM	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: 30 - 60%
SureSelect QXT Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
Ingredients of unknown ecotoxicity : 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	No known significant effects or critical hazards.

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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

Precautionary statements

Prevention

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

Response

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

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Storage	:	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.		
		Disposal	:	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.				
Supplemental label elements	:			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	Safety data sheet available on request.
				SureSelect QXT Enzyme Mix ILM	Safety data sheet available on request.
		SureSelect QXT Buffer	Safety data sheet available on request.		

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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

<input checked="" type="checkbox"/> 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

Containers to be fitted with child-resistant fastenings

<input checked="" type="checkbox"/> 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.

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Tactile warning of danger

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.
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.

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
DMSO	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

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SureSelect QXT P7 i5	assessed to be a PBT or a vPvB. 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.
Other hazards which do not result in classification :	
<input checked="" type="checkbox"/> 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

3.1 Substances	:	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

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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	Type
DMSO Dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	100	Not classified.	[1]
Herculase II 5X Rxn Buffer 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]
Herculase II Fusion DNA Polymerase Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
SureSelect QXT Enzyme Mix ILM Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
SureSelect QXT Buffer Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
			See Section 16 for the full text of the H statements declared above.	

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.

Type

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**

Eye contact	:  MSO	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.
	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.

SECTION 4: First aid measures

Inhalation

: DMSO

Herculase II 5X Rxn Buffer

100 mM dNTP Mix

Herculase II Fusion DNA Polymerase

SureSelect QXT Enzyme Mix ILM

SureSelect QXT Buffer

SureSelect QXT P7 i1

SureSelect QXT P7 i2

SureSelect QXT P7 i3

SureSelect QXT P7 i4

SureSelect QXT P7 i5

SureSelect QXT P7 i6

SureSelect QXT P7 i7

SureSelect QXT P7 i8

SureSelect QXT P5 i13

SureSelect QXT P5 i14

SureSelect QXT Read Primer 1

SureSelect QXT Read Primer 2

SureSelect QXT Index 1 Read Primer

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.

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.

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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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

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.
	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.

SECTION 4: First aid measures

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 Mix ILM	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 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.

SECTION 4: First aid measures

SureSelect QXT P7 i8	occur. 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.
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.

Protection of first-aiders :  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.

SECTION 4: First aid measures

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

Over-exposure signs/symptoms

Eye contact

: <input checked="" type="checkbox"/> 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.

Inhalation

: <input checked="" type="checkbox"/> 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	No specific data.

SECTION 4: First aid measures

	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	
Skin contact	: 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	
Ingestion	: 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

SECTION 4: First aid measures

Notes to physician	: <input checked="" type="checkbox"/> MSO	
	Herculase II 5X Rxn Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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	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	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Enzyme Mix ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	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.
	SureSelect QXT Read Primer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Read Primer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT 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.
Specific treatments	: <input checked="" type="checkbox"/> MSO	
	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.

SECTION 4: First aid measures

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

Suitable extinguishing media



: <input checked="" type="checkbox"/> 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 Read Primer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT Index 2 Read Primer	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: <input checked="" type="checkbox"/> 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 5: Firefighting measures

5.2 Special hazards arising from the substance or mixture


Hazards from the substance or mixture	:  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 container may burst.
	SureSelect QXT Read Primer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect QXT Read Primer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect QXT 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.
Hazardous combustion products	:  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:

SECTION 5: Firefighting measures

	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


Special protective actions for fire-fighters

:  MSO	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.

SECTION 5: Firefighting measures

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.

Special protective equipment for fire-fighters

:  MSO	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Herculase II 5X Rxn Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
100 mM dNTP Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Herculase II Fusion DNA Polymerase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT Enzyme Mix ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i4	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i5	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i6	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i7	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i8	Fire-fighters should wear appropriate protective equipment

SECTION 5: Firefighting measures

SureSelect QXT P5 i13	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT 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.
SureSelect QXT Read Primer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT Read Primer 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT 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.
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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

:  MSO

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

SECTION 6: Accidental release measures

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. 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.

SECTION 6: Accidental release measures

For emergency responders

: 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, 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".

SECTION 6: Accidental release measures

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 (sewers, waterways, soil or air).
100 mM dNTP Mix	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).

SECTION 6: Accidental release measures

SureSelect QXT P7 i7	(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 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).
SureSelect QXT Index 1 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).
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

	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Herculase II 5X Rxn Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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

SECTION 6: Accidental release measures

	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, 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,

SECTION 6: Accidental release measures

SureSelect QXT Index 2
Read Primer

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.

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

Protective measures

: DMSO

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

Herculase II 5X Rxn
Buffer
100 mM dNTP Mix

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

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

Herculase II Fusion DNA
Polymerase

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

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).

Advice on general occupational hygiene

: DMSO

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

Herculase II 5X Rxn

Eating, drinking and smoking should be prohibited in areas

SECTION 7: Handling and storage

Buffer	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. 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.

SECTION 7: Handling and storage

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

SECTION 7: Handling and storage

	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 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

SECTION 7: Handling and storage

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

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SureSelect QXT P5 i13	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect QXT P5 i14	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect QXT Read Primer 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect QXT Read Primer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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)

SECTION 7: Handling and storage

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.
		SureSelect QXT Index 2 Read Primer	Industrial applications, Professional applications.
Industrial sector specific solutions	:	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

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
Herculase II Fusion DNA Polymerase Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
SureSelect QXT Enzyme Mix ILM Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
SureSelect QXT Buffer Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
DMSO Dimethyl sulfoxide	DNEL	Long term Oral	1.67 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3.13 mg/m ³	General population	Local
	DNEL	Long term Inhalation	17.67 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	56 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	75 mg/m ³	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
	Herculase II 5X Rxn Buffer Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population
DNEL		Long term Inhalation	29 mg/m ³	General population	Systemic
DNEL		Long term Dermal	83.3 mg/kg bw/day	General population	Systemic
DNEL		Long term Inhalation	117.5 mg/m ³	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 ³	General population	Systemic
	DNEL	Long term Inhalation	11.1 mg/m ³	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

SECTION 8: Exposure controls/personal protection**8.2 Exposure controls**

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

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

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**

Physical state	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	Liquid.	

SECTION 9: Physical and chemical properties

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

SECTION 9: Physical and chemical properties

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

Melting point/freezing point	:	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

Initial boiling point and boiling range	:	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.

SECTION 9: Physical and chemical properties

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	100°C
Primer 1	
SureSelect QXT Read	100°C
Primer 2	
SureSelect QXT Index 1	100°C
Read Primer	
SureSelect QXT Index 2	100°C
Read Primer	

Flammability

: 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	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	

Upper/lower flammability or explosive limits

: 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.

SECTION 9: Physical and chemical properties

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

Flash point

: DMSO Closed cup: 87°C [ASTM D 93]
 Open cup: 87°C
 Herculase II 5X Rxn Not available.
 Buffer
 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 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
Herculase II Fusion DNA Polymerase				
glycerol	-	-	177	-
SureSelect QXT Enzyme Mix ILM				
glycerol	-	-	177	-
SureSelect QXT Buffer				
glycerol	-	-	177	-

Auto-ignition temperature

: DMSO 300 to 302°C

SECTION 9: Physical and chemical properties

Ingredient name	°C	Method
Herculase II Fusion DNA Polymerase		
glycerol	370	-
SureSelect QXT Enzyme Mix ILM		
glycerol	370	-
SureSelect QXT Buffer		
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.
	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.

pH

:	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	7 to 7.5

SECTION 9: Physical and chemical properties

Primer 2
 SureSelect QXT Index 1 7 to 7.5
 Read Primer
 SureSelect QXT Index 2 7 to 7.5
 Read Primer

Viscosity

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

Solubility(ies)

Media	Result
<input checked="" type="checkbox"/> DMSO	
water	Soluble
Herculase II 5X Rxn Buffer	
water	Soluble
100 mM dNTP Mix	
water	Soluble
Herculase II Fusion DNA Polymerase	
water	Soluble
SureSelect QXT Enzyme Mix ILM	
water	Soluble
SureSelect QXT Buffer	
water	Soluble
SureSelect QXT P7 i1	
water	Soluble
SureSelect QXT P7 i2	
water	Soluble
SureSelect QXT P7 i3	
water	Soluble
SureSelect QXT P7 i4	
water	Soluble
SureSelect QXT P7 i5	
water	Soluble
SureSelect QXT P7 i6	
water	Soluble
SureSelect QXT P7 i7	
water	Soluble
SureSelect QXT P7 i8	
water	Soluble
SureSelect QXT P5 i13	

SECTION 9: Physical and chemical properties

water	Soluble
SureSelect QXT P5 i14	
water	Soluble
SureSelect QXT Read Primer 1	
water	Soluble
SureSelect QXT Read Primer 2	
water	Soluble
SureSelect QXT Index 1 Read Primer	
water	Soluble
SureSelect QXT Index 2 Read Primer	
water	Soluble

Partition coefficient: n-octanol/water

<input checked="" type="checkbox"/> 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.
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.

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
<input checked="" type="checkbox"/> Herculase II 5X Rxn Buffer						
water	17.5	2.3	-	92.258	12.3	-
trometamol	<0.00075006	<0.0001	-	-	-	-
100 mM dNTP Mix						
water	17.5	2.3	-	92.258	12.3	-
Herculase II Fusion DNA Polymerase						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-

SECTION 9: Physical and chemical properties

SureSelect QXT Enzyme Mix ILM							
water	17.5	2.3	-	92.258	12.3	-	
glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
SureSelect QXT Buffer							
water	17.5	2.3	-	92.258	12.3	-	
glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
SureSelect QXT P7 i1							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT P7 i2							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT P7 i3							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT P7 i4							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT P7 i5							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT P7 i6							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT P7 i7							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT P7 i8							
water	17.5	2.3	-	92.258	12.3	-	

SECTION 9: Physical and chemical properties

SureSelect QXT P5 i13							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT P5 i14							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT Read Primer 1							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT Read Primer 2							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT Index 1 Read Primer							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect QXT Index 2 Read Primer							
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.

SECTION 9: Physical and chemical properties

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.

Vapour density	:	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.

Explosive properties	:	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.

SECTION 9: Physical and chemical properties

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.

Oxidising properties

: 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.

Particle characteristics

Median particle size

: 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 9: Physical and chemical properties


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

10.1 Reactivity

:  MSO	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.
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.

SECTION 10: Stability and reactivity

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.
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.

SECTION 10: Stability and reactivity

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

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.

SECTION 10: Stability and reactivity

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.
	SureSelect QXT P5 i14	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
DMSO Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	- -
Herculase II 5X Rxn Buffer Trometamol Hexadecan-1-ol, ethoxylated	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg 2500 mg/kg	- -
Herculase II Fusion DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect QXT Enzyme Mix ILM Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect QXT Buffer				

SECTION 11: Toxicological information

Glycerol	LD50 Oral	Rat	12600 mg/kg	-
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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)
DMSO Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
Herculase II 5X Rxn Buffer Hexadecan-1-ol, ethoxylated	2500	N/A	N/A	N/A	N/A
Herculase II Fusion DNA Polymerase Glycerol	12600	N/A	N/A	N/A	N/A
SureSelect QXT Enzyme Mix ILM Glycerol	12600	N/A	N/A	N/A	N/A
SureSelect QXT Buffer Glycerol	12600	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
DMSO 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	-
Herculase II 5X Rxn Buffer Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
Herculase II Fusion DNA Polymerase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
SureSelect QXT Enzyme Mix ILM Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
SureSelect QXT Buffer Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

SECTION 11: Toxicological information

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

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	No known significant effects or critical hazards.	

SECTION 11: Toxicological information

	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	
Ingestion	: 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	
Skin contact	: 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

Eye contact	:	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

Inhalation	:	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.
Ingestion	:	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	: <input checked="" type="checkbox"/> 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	: <input checked="" type="checkbox"/> 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.

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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.

General	: <input checked="" type="checkbox"/> MSO	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.
Carcinogenicity	: <input checked="" type="checkbox"/> MSO	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.

SECTION 11: Toxicological information

	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.
Mutagenicity	: 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.
Reproductive toxicity	: 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.

SECTION 11: Toxicological information

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.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
DMSO Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Fathead minnow - <i>Pimephales promelas</i>	96 hours
	Chronic NOEC 100 µl/L Marine water	Algae - Green algae - <i>Ulva lactuca</i>	72 hours
	Chronic NOEC 100 µl/L Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	21 days
Herculase II 5X Rxn Buffer Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 µg/l Marine water	Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> - Adult	48 hours
Herculase II Fusion DNA Polymerase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
SureSelect QXT Enzyme Mix ILM Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
SureSelect QXT Buffer Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

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

SECTION 12: Ecological information

Herculase II Fusion DNA Polymerase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
SureSelect QXT Enzyme Mix ILM Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
SureSelect QXT Buffer Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Conclusion/Summary : Not available.

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

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
DMSO Dimethyl sulfoxide	-1.35	3.16	Low
Herculase II 5X Rxn Buffer Trometamol Hexadecan-1-ol, ethoxylated	-2.31 >6.06	- -	Low High
Herculase II Fusion DNA Polymerase Glycerol	-1.76	-	Low
SureSelect QXT Enzyme Mix ILM Glycerol	-1.76	-	Low
SureSelect QXT Buffer Glycerol	-1.76	-	Low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Hazardous waste : 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
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
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

UK (GB)/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.

Ozone depleting substances

Not listed.


Prior Informed Consent (PIC)


Not listed.

Persistent Organic Pollutants

Not listed.

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

Product / Ingredient name	Identifiers	Status
 Herculase II 5X Rxn Buffer Ammonium sulphate		65

Label	:	 MSO	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.

Seveso Directive

 This product is not controlled under the Seveso Directive.

EU regulations

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

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

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

United States : Not determined.

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

 Herculase II 5X Rxn Buffer	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Full text of classifications

 Herculase II 5X Rxn Buffer	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2

Date of issue/ Date of revision : 31/01/2024

Date of previous issue : 17/02/2021

SECTION 16: Other information

Version : 5

Notice to reader

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