

# SAFETY DATA SHEET



Avida Duo DNA and Methyl Reagent Kit with 1-32 Index Primer Pairs for ILM, 16 Reactions, Part Number G9439A

## Section 1. Identification

<b>Product identifier</b>	: Avida Duo DNA and Methyl Reagent Kit with 1-32 Index Primer Pairs for ILM, 16 Reactions, Part Number G9439A
<b>Part no. (chemical kit)</b>	: G9439A
<b>Part no.</b>	: <u>Avida DNA and Duo Reagent Box 2, 16 Reactions/Avida Methyl and Duo Reagent Box 3, 16 Reactions</u> <u>5282-0141/5282-0149</u>
	Nuclease-Free Water 5271-0107
	<u>Avida Duo Methyl Reagent Box 1, 16 Reactions</u> <u>5282-0151</u>
	End Prep Buffer 5271-0094
	End Prep Enzyme 5271-0095
	Ligation Buffer 5271-0096
	Ligation Enzyme 5271-0097
	Adapter for ILM 5271-0112
	Hyb Blocker 5271-0099
	Hyb Buffer 5271-0100
	Hyb Enhancer 5271-0101
	Soft Conversion Reagent A 5271-0110
	2X Amplification Mastermix 5271-0102
	2X Methyl Amplification Mastermix 5271-0111
	<u>Avida DNA and Duo Reagent Box 2, 16 Reactions</u> <u>5282-0141</u>
	Library Wash Buffer 5271-0103
	Hyb Wash Buffer 1 5271-0104
	Hyb Wash Buffer 2 5271-0105
	Resuspension Buffer 5271-0106
	<u>Avida Methyl and Duo Reagent Box 3, 16 Reactions</u> <u>5282-0149</u>
	Soft Conversion Reagent B 5271-0113
	Soft Conversion Binding Beads 5271-0114
	5X Soft Conversion Wash Buffer 5271-0115
	Soft Conversion Elution Buffer 5271-0116
	Soft Conversion Repair Solution 5271-0117
	<u>Avida Duo Beads Box, 16 Reactions</u> <u>5282-0153</u>
	Library Binding Beads 5271-0108
	Capture Beads 5271-0109
	<u>Avida Index Primer Pairs 1-32 for ILM</u> <u>5280-0054</u>
	Index Primer Mix for ILM 1-8 5274-0075
	Index Primer Mix for ILM 9-16 5274-0076
	Index Primer Mix for ILM 17-24 5274-0077
	Index Primer Mix for ILM 25-32 5274-0078

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

<b>Identified uses</b>	: Analytical reagent. For research use only.
	Nuclease-Free Water 0.88 ml (16 reactions)
	End Prep Buffer 0.124 ml (16 reactions)
	End Prep Enzyme 0.053 ml (16 reactions)
	Ligation Buffer 0.44 ml (16 reactions)
	Ligation Enzyme 0.106 ml (16 reactions)
	Adapter for ILM 0.088 ml (16 reactions)
	Hyb Blocker 0.044 ml (16 reactions)
	Hyb Buffer 0.81 ml (16 reactions)
	Hyb Enhancer 0.132 ml (16 reactions)
	Soft Conversion Reagent A 0.062 ml (16 reactions)

## Section 1. Identification

2X Amplification Mastermix	0.44 ml (16 reactions)
2X Methyl Amplification Mastermix	0.440 ml (16 reactions)
Library Wash Buffer	6.336 ml (16 reactions)
Hyb Wash Buffer 1	2 x 5.280 ml (16 reactions)
Hyb Wash Buffer 2	2 x 2.64 ml (16 reactions)
Resuspension Buffer	0.352 ml (16 reactions)
Soft Conversion Reagent B	2 x 0.750 ml
Soft Conversion Binding Beads	2.640 ml (16 reactions)
5X Soft Conversion Wash Buffer	2 ml (16 reactions)
Soft Conversion Elution Buffer	0.264 ml (16 reactions)
Soft Conversion Repair Solution	0.088 ml (16 reactions)
Library Binding Beads	1.532 ml (16 reactions)
Capture Beads	2 x 0.141 ml (16 reactions)
Index Primer Mix for ILM 1-8	8 x 0.005 ml
Index Primer Mix for ILM 9-16	8 x 0.005 ml
Index Primer Mix for ILM 17-24	8 x 0.005 ml
Index Primer Mix for ILM 25-32	8 x 0.005 ml

**Uses advised against** : Not for use in diagnostic procedures.

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave  
Victoria 3170, Australia  
1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

#### End Prep Buffer

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### End Prep Enzyme

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

#### Ligation Enzyme

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

#### Hyb Buffer

H302 ACUTE TOXICITY (oral) - Category 4  
H315 SKIN CORROSION/IRRITATION - Category 2  
H370 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1  
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### Hyb Enhancer

H351 CARCINOGENICITY - Category 2  
H360 REPRODUCTIVE TOXICITY - Category 1  
H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

#### Soft Conversion Reagent A

H227 FLAMMABLE LIQUIDS - Category 4  
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A  
H360 REPRODUCTIVE TOXICITY - Category 1

#### Soft Conversion Reagent B

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

#### Soft Conversion Binding Beads

## Section 2. Hazard(s) identification







H226	FLAMMABLE LIQUIDS - Category 3
H314	SKIN CORROSION/IRRITATION - Category 1C
H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

### Soft Conversion Elution Buffer

H314	SKIN CORROSION/IRRITATION - Category 1
H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Hyb Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
Hyb Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.4%
2X Methyl Amplification Mastermix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 10%
Soft Conversion Reagent B	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 70%

### GHS label elements

#### Hazard pictograms

: Hyb Buffer	
Hyb Enhancer	
Soft Conversion Reagent A	
Soft Conversion Reagent B	
Soft Conversion Binding Beads	
Soft Conversion Elution Buffer	

#### Signal word

: Nuclease-Free Water	No signal word.
End Prep Buffer	No signal word.
End Prep Enzyme	WARNING
Ligation Buffer	No signal word.
Ligation Enzyme	WARNING
Adapter for ILM	No signal word.
Hyb Blocker	No signal word.
Hyb Buffer	DANGER
Hyb Enhancer	DANGER
Soft Conversion Reagent A	DANGER
2X Amplification Mastermix	No signal word.
2X Methyl Amplification	No signal word.

## Section 2. Hazard(s) identification

Mastermix		
Library Wash Buffer		No signal word.
Hyb Wash Buffer 1		No signal word.
Hyb Wash Buffer 2		No signal word.
Resuspension Buffer		No signal word.
Soft Conversion Reagent B		WARNING
Soft Conversion Binding		DANGER
Beads		
5X Soft Conversion Wash		No signal word.
Buffer		
Soft Conversion Elution		DANGER
Buffer		
Soft Conversion Repair		No signal word.
Solution		
Library Binding Beads		No signal word.
Capture Beads		No signal word.
Index Primer Mix for ILM 1-8		No signal word.
Index Primer Mix for ILM		No signal word.
9-16		
Index Primer Mix for ILM		No signal word.
17-24		
Index Primer Mix for ILM		No signal word.
25-32		
<b>Hazard statements</b>	<b>:</b>	
Nuclease-Free Water		No known significant effects or critical hazards.
End Prep Buffer		H412 - Harmful to aquatic life with long lasting effects.
End Prep Enzyme		H320 - Causes eye irritation.
Ligation Buffer		No known significant effects or critical hazards.
Ligation Enzyme		H320 - Causes eye irritation.
Adapter for ILM		No known significant effects or critical hazards.
Hyb Blocker		No known significant effects or critical hazards.
Hyb Buffer		H302 - Harmful if swallowed. H315 - Causes skin irritation. H370 - Causes damage to organs. (central nervous system (CNS)) H412 - Harmful to aquatic life with long lasting effects.
Hyb Enhancer		H351 - Suspected of causing cancer. H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (blood)
Soft Conversion Reagent A		H227 - Combustible liquid. H319 - Causes serious eye irritation. H360 - May damage fertility or the unborn child.
2X Amplification Mastermix		No known significant effects or critical hazards.
2X Methyl Amplification		No known significant effects or critical hazards.
Mastermix		
Library Wash Buffer		No known significant effects or critical hazards.
Hyb Wash Buffer 1		No known significant effects or critical hazards.
Hyb Wash Buffer 2		No known significant effects or critical hazards.
Resuspension Buffer		No known significant effects or critical hazards.
Soft Conversion Reagent B		H319 - Causes serious eye irritation.
Soft Conversion Binding		H226 - Flammable liquid and vapour.
Beads		H314 - Causes severe skin burns and eye damage. H400 - Very toxic to aquatic life. H411 - Toxic to aquatic life with long lasting effects.
5X Soft Conversion Wash		No known significant effects or critical hazards.
Buffer		
Soft Conversion Elution		H314 - Causes severe skin burns and eye damage.
Buffer		
Soft Conversion Repair		No known significant effects or critical hazards.
Solution		
Library Binding Beads		No known significant effects or critical hazards.
Capture Beads		No known significant effects or critical hazards.
Index Primer Mix for ILM 1-8		No known significant effects or critical hazards.

## Section 2. Hazard(s) identification

Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.

### Precautionary statements

#### Prevention

: Nuclease-Free Water	Not applicable.
End Prep Buffer	P273 - Avoid release to the environment.
End Prep Enzyme	Not applicable.
Ligation Buffer	Not applicable.
Ligation Enzyme	Not applicable.
Adapter for ILM	Not applicable.
Hyb Blocker	Not applicable.
Hyb Buffer	P280 - Wear protective gloves. P273 - Avoid release to the environment. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product.
Hyb Enhancer	P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P260 - Do not breathe vapour.
Soft Conversion Reagent A	P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
2X Amplification Mastermix	Not applicable.
2X Methyl Amplification Mastermix	Not applicable.
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	Not applicable.
Resuspension Buffer	Not applicable.
Soft Conversion Reagent B	P280 - Wear eye or face protection.
Soft Conversion Binding Beads	P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
5X Soft Conversion Wash Buffer	Not applicable.
Soft Conversion Elution Buffer	P280 - Wear protective gloves, protective clothing and eye or face protection.
Soft Conversion Repair Solution	Not applicable.
Library Binding Beads	Not applicable.
Capture Beads	Not applicable.
Index Primer Mix for ILM 1-8	Not applicable.
Index Primer Mix for ILM 9-16	Not applicable.
Index Primer Mix for ILM 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.

**Section 2. Hazard(s) identification**

<b>Response</b>	:	Nuclease-Free Water End Prep Buffer End Prep Enzyme	Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
		Ligation Buffer Ligation Enzyme	Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
		Adapter for ILM Hyb Blocker Hyb Buffer	Not applicable. Not applicable. P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
		Hyb Enhancer	P308 + P313 - IF exposed or concerned: Get medical advice or attention.
		Soft Conversion Reagent A	P308 + P313 - IF exposed or concerned: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		2X Amplification Mastermix 2X Methyl Amplification Mastermix	Not applicable. Not applicable.
		Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer	Not applicable. Not applicable. Not applicable. Not applicable.
		Soft Conversion Reagent B	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
		Soft Conversion Binding Beads	P391 - Collect spillage.  P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.
		5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer	Not applicable.  P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
		Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16 Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

## Section 2. Hazard(s) identification

<b>Storage</b>	:	Nuclease-Free Water	Not applicable.
		End Prep Buffer	Not applicable.
		End Prep Enzyme	Not applicable.
		Ligation Buffer	Not applicable.
		Ligation Enzyme	Not applicable.
		Adapter for ILM	Not applicable.
		Hyb Blocker	Not applicable.
		Hyb Buffer	Not applicable.
		Hyb Enhancer	Not applicable.
		Soft Conversion Reagent A	Not applicable.
		2X Amplification Mastermix	Not applicable.
		2X Methyl Amplification Mastermix	Not applicable.
		Library Wash Buffer	Not applicable.
		Hyb Wash Buffer 1	Not applicable.
		Hyb Wash Buffer 2	Not applicable.
		Resuspension Buffer	Not applicable.
		Soft Conversion Reagent B	Not applicable.
		Soft Conversion Binding Beads	Not applicable.
		5X Soft Conversion Wash Buffer	Not applicable.
		Soft Conversion Elution Buffer	Not applicable.
		Soft Conversion Repair Solution	Not applicable.
		Library Binding Beads	Not applicable.
		Capture Beads	Not applicable.
		Index Primer Mix for ILM 1-8	Not applicable.
		Index Primer Mix for ILM 9-16	Not applicable.
	Index Primer Mix for ILM 17-24	Not applicable.	
	Index Primer Mix for ILM 25-32	Not applicable.	
<b>Disposal</b>	:	Nuclease-Free Water	Not applicable.
		End Prep Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		End Prep Enzyme	Not applicable.
		Ligation Buffer	Not applicable.
		Ligation Enzyme	Not applicable.
		Adapter for ILM	Not applicable.
		Hyb Blocker	Not applicable.
		Hyb Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		Hyb Enhancer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		Soft Conversion Reagent A	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		2X Amplification Mastermix	Not applicable.
		2X Methyl Amplification Mastermix	Not applicable.
		Library Wash Buffer	Not applicable.
		Hyb Wash Buffer 1	Not applicable.
		Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.	
	Soft Conversion Reagent B	Not applicable.	
	Soft Conversion Binding Beads	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	



## Section 2. Hazard(s) identification

5X Soft Conversion Wash Buffer	international regulations. Not applicable.
Soft Conversion Elution Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Soft Conversion Repair Solution	Not applicable.
Library Binding Beads	Not applicable.
Capture Beads	Not applicable.
Index Primer Mix for ILM 1-8	Not applicable.
Index Primer Mix for ILM 9-16	Not applicable.
Index Primer Mix for ILM 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.

### Supplemental label elements

#### Additional warning phrases

: Nuclease-Free Water	Not applicable.
End Prep Buffer	Not applicable.
End Prep Enzyme	Not applicable.
Ligation Buffer	Not applicable.
Ligation Enzyme	Not applicable.
Adapter for ILM	Not applicable.
Hyb Blocker	Not applicable.
Hyb Buffer	Not applicable.
Hyb Enhancer	Not applicable.
Soft Conversion Reagent A	Not applicable.
2X Amplification Mastermix	Not applicable.
2X Methyl Amplification Mastermix	Not applicable.
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	Not applicable.
Resuspension Buffer	Not applicable.
Soft Conversion Reagent B	Not applicable.
Soft Conversion Binding Beads	Corrosive to the respiratory tract.
5X Soft Conversion Wash Buffer	Not applicable.
Soft Conversion Elution Buffer	Not applicable.
Soft Conversion Repair Solution	Not applicable.
Library Binding Beads	Not applicable.
Capture Beads	Not applicable.
Index Primer Mix for ILM 1-8	Not applicable.
Index Primer Mix for ILM 9-16	Not applicable.
Index Primer Mix for ILM 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.

#### Other hazards which do not result in classification

: Nuclease-Free Water	None known.
End Prep Buffer	None known.
End Prep Enzyme	None known.
Ligation Buffer	None known.
Ligation Enzyme	None known.
Adapter for ILM	None known.
Hyb Blocker	None known.
Hyb Buffer	None known.
Hyb Enhancer	None known.



## Section 2. Hazard(s) identification

Soft Conversion Reagent A	None known.
2X Amplification Mastermix	None known.
2X Methyl Amplification Mastermix	None known.
Library Wash Buffer	None known.
Hyb Wash Buffer 1	None known.
Hyb Wash Buffer 2	None known.
Resuspension Buffer	None known.
Soft Conversion Reagent B	None known.
Soft Conversion Binding Beads	Causes digestive tract burns.
5X Soft Conversion Wash Buffer	None known.
Soft Conversion Elution Buffer	None known.
Soft Conversion Repair Solution	None known.
Library Binding Beads	None known.
Capture Beads	None known.
Index Primer Mix for ILM 1-8	None known.
Index Primer Mix for ILM 9-16	None known.
Index Primer Mix for ILM 17-24	None known.
Index Primer Mix for ILM 25-32	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	:	Nuclease-Free Water	Substance
		End Prep Buffer	Mixture
		End Prep Enzyme	Mixture
		Ligation Buffer	Mixture
		Ligation Enzyme	Mixture
		Adapter for ILM	Mixture
		Hyb Blocker	Mixture
		Hyb Buffer	Mixture
		Hyb Enhancer	Mixture
		Soft Conversion Reagent A	Mixture
		2X Amplification Mastermix	Mixture
		2X Methyl Amplification Mastermix	Mixture
		Library Wash Buffer	Mixture
		Hyb Wash Buffer 1	Mixture
		Hyb Wash Buffer 2	Mixture
		Resuspension Buffer	Mixture
		Soft Conversion Reagent B	Mixture
		Soft Conversion Binding Beads	Mixture
		5X Soft Conversion Wash Buffer	Mixture
		Soft Conversion Elution Buffer	Mixture
		Soft Conversion Repair Solution	Mixture
		Library Binding Beads	Mixture
		Capture Beads	Mixture
		Index Primer Mix for ILM 1-8	Mixture
		Index Primer Mix for ILM 9-16	Mixture
		Index Primer Mix for ILM 17-24	Mixture
		Index Primer Mix for ILM 25-32	Mixture

**Section 3. Composition and ingredient information****CAS number/other identifiers**

<b>Ingredient name</b>	<b>% (w/w)</b>	<b>CAS number</b>
<b>Nuclease-Free Water</b>		
water	100	7732-18-5
<b>End Prep Buffer</b>		
Magnesium chloride	<2.5	7786-30-3
<b>End Prep Enzyme</b>		
Glycerol	≥30 - ≤60	56-81-5
<b>Ligation Buffer</b>		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3
<b>Ligation Enzyme</b>		
Glycerol	≥30 - ≤60	56-81-5
<b>Hyb Buffer</b>		
tetramethylammonium chloride	≥10 - <15	75-57-0
<b>Hyb Enhancer</b>		
Formamide	≥90	75-12-7
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	≤5	25322-68-3
<b>Soft Conversion Reagent A</b>		
tetrahydro-2-furymethanol	≥90	97-99-4
<b>2X Amplification Mastermix</b>		
Glycerol	<10	56-81-5
<b>Library Wash Buffer</b>		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3
<b>Soft Conversion Reagent B</b>		
ammonium hydrogensulphite	≥60 - ≤75	10192-30-0
<b>Soft Conversion Binding Beads</b>		
Ethanol	≥60 - ≤75	64-17-5
Guanidinium thiocyanate	≥10 - ≤21	593-84-0

## Section 3. Composition and ingredient information

Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	≤6.5	9036-19-5
<b>Library Binding Beads</b>		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3

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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Nuclease-Free Water	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.
	End Prep 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.
	End Prep Enzyme	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Ligation 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.
	Ligation Enzyme	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Adapter for 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.
	Hyb Blocker	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.
	Hyb Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
	Hyb Enhancer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	Soft Conversion Reagent A	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	2X Amplification Mastermix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

## Section 4. First aid measures

2X Methyl Amplification Mastermix	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Library Wash 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.
Hyb Wash Buffer 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.
Hyb Wash Buffer 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.
Resuspension 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.
Soft Conversion Reagent B	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Soft Conversion Binding Beads	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
5X Soft Conversion Wash 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.
Soft Conversion Elution Buffer	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Soft Conversion Repair Solution	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.
Library Binding Beads	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.
Capture Beads	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.
Index Primer Mix for ILM 1-8	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.
Index Primer Mix for ILM 9-16	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

	Index Primer Mix for ILM 17-24	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.
	Index Primer Mix for ILM 25-32	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: Nuclease-Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	End Prep Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	End Prep Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Ligation Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	Ligation Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Adapter for ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hyb Blocker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hyb Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire,

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	symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Hyb Enhancer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Soft Conversion Reagent A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
2X Amplification Mastermix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
2X Methyl Amplification Mastermix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Library Wash Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Hyb Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Hyb Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Resuspension Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Soft Conversion Reagent B	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Soft Conversion Binding Beads	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If



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it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5X Soft Conversion Wash Buffer

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

Soft Conversion Elution Buffer

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Soft Conversion Repair Solution

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.

Library Binding Beads

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

Capture Beads

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

Index Primer Mix for ILM 1-8

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

Index Primer Mix for ILM 9-16

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

Index Primer Mix for ILM 17-24

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

Index Primer Mix for ILM 25-32

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

### Skin contact

: Nuclease-Free Water

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

End Prep Buffer

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

End Prep Enzyme

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get



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Ligation Buffer	medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ligation Enzyme	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Adapter for ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Hyb Blocker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Hyb Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Hyb Enhancer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Soft Conversion Reagent A	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
2X Amplification Mastermix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
2X Methyl Amplification Mastermix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Library Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Hyb Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Hyb Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Resuspension Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Soft Conversion Reagent B	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Soft Conversion Binding Beads	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must

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5X Soft Conversion Wash Buffer	be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Soft Conversion Elution Buffer	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Soft Conversion Repair Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Library Binding Beads	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Capture Beads	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Index Primer Mix for ILM 1-8	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Index Primer Mix for ILM 9-16	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Index Primer Mix for ILM 17-24	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Index Primer Mix for ILM 25-32	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	
: Nuclease-Free Water	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.
End Prep 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.
End Prep Enzyme	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ligation 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.

## Section 4. First aid measures

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

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2X Amplification Mastermix	tie, belt or waistband. 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.
2X Methyl Amplification Mastermix	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.
Library Wash 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.
Hyb Wash Buffer 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.
Hyb Wash Buffer 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.
Resuspension 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.
Soft Conversion Reagent B	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Soft Conversion Binding Beads	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
5X Soft Conversion Wash 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

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Soft Conversion Elution Buffer	vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Soft Conversion Repair Solution	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.
Library Binding Beads	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.
Capture Beads	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.
Index Primer Mix for ILM 1-8	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.
Index Primer Mix for ILM 9-16	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.
Index Primer Mix for ILM 17-24	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.
Index Primer Mix for ILM 25-32	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.

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

#### Potential acute health effects

<b>Eye contact</b>	: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
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	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	Causes serious eye irritation.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion Reagent B	Causes serious eye irritation.
	Soft Conversion Binding Beads	Causes serious eye damage.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	Causes serious eye damage.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
<b>Inhalation</b>	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single exposure if inhaled.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Corrosive to the respiratory tract. Causes burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.

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### Skin contact

Nuclease-Free Water	No known significant effects or critical hazards.
End Prep Buffer	No known significant effects or critical hazards.
End Prep Enzyme	No known significant effects or critical hazards.
Ligation Buffer	No known significant effects or critical hazards.
Ligation Enzyme	No known significant effects or critical hazards.
Adapter for ILM	No known significant effects or critical hazards.
Hyb Blocker	No known significant effects or critical hazards.
Hyb Buffer	Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
Hyb Enhancer	No known significant effects or critical hazards.
Soft Conversion Reagent A	No known significant effects or critical hazards.
2X Amplification Mastermix	No known significant effects or critical hazards.
2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
Library Wash Buffer	No known significant effects or critical hazards.
Hyb Wash Buffer 1	No known significant effects or critical hazards.
Hyb Wash Buffer 2	No known significant effects or critical hazards.
Resuspension Buffer	No known significant effects or critical hazards.
Soft Conversion Reagent B	No known significant effects or critical hazards.
Soft Conversion Binding Beads	Causes severe burns.
5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
Soft Conversion Elution Buffer	Causes severe burns.
Soft Conversion Repair Solution	No known significant effects or critical hazards.
Library Binding Beads	No known significant effects or critical hazards.
Capture Beads	No known significant effects or critical hazards.
Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.

### Ingestion

Nuclease-Free Water	No known significant effects or critical hazards.
End Prep Buffer	No known significant effects or critical hazards.
End Prep Enzyme	No known significant effects or critical hazards.
Ligation Buffer	No known significant effects or critical hazards.
Ligation Enzyme	No known significant effects or critical hazards.
Adapter for ILM	No known significant effects or critical hazards.
Hyb Blocker	No known significant effects or critical hazards.
Hyb Buffer	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
Hyb Enhancer	No known significant effects or critical hazards.
Soft Conversion Reagent A	No known significant effects or critical hazards.
2X Amplification Mastermix	No known significant effects or critical hazards.
2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
Library Wash Buffer	No known significant effects or critical hazards.
Hyb Wash Buffer 1	No known significant effects or critical hazards.
Hyb Wash Buffer 2	No known significant effects or critical hazards.
Resuspension Buffer	No known significant effects or critical hazards.
Soft Conversion Reagent B	No known significant effects or critical hazards.
Soft Conversion Binding Beads	Corrosive to the digestive tract. Causes burns.
5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
Soft Conversion Elution Buffer	No known significant effects or critical hazards.
Soft Conversion Repair Solution	No known significant effects or critical hazards.



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Library Binding Beads	No known significant effects or critical hazards.
Capture Beads	No known significant effects or critical hazards.
Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

#### **Eye contact**

: Nuclease-Free Water	No specific data.
End Prep Buffer	No specific data.
End Prep Enzyme	Adverse symptoms may include the following: irritation watering redness
Ligation Buffer	No specific data.
Ligation Enzyme	Adverse symptoms may include the following: irritation watering redness
Adapter for ILM	No specific data.
Hyb Blocker	No specific data.
Hyb Buffer	Adverse symptoms may include the following: pain or irritation watering redness
Hyb Enhancer	No specific data.
Soft Conversion Reagent A	Adverse symptoms may include the following: pain or irritation watering redness
2X Amplification Mastermix	No specific data.
2X Methyl Amplification Mastermix	No specific data.
Library Wash Buffer	No specific data.
Hyb Wash Buffer 1	No specific data.
Hyb Wash Buffer 2	No specific data.
Resuspension Buffer	No specific data.
Soft Conversion Reagent B	Adverse symptoms may include the following: pain or irritation watering redness
Soft Conversion Binding Beads	Adverse symptoms may include the following:  pain watering redness
5X Soft Conversion Wash Buffer	No specific data.
Soft Conversion Elution Buffer	Adverse symptoms may include the following:  pain watering redness
Soft Conversion Repair Solution	No specific data.
Library Binding Beads	No specific data.
Capture Beads	No specific data.
Index Primer Mix for ILM 1-8	No specific data.
Index Primer Mix for ILM 9-16	No specific data.
Index Primer Mix for ILM	No specific data.

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	17-24 Index Primer Mix for ILM 25-32	No specific data.
<b>Inhalation</b>	: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	Soft Conversion Reagent A	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	2X Amplification Mastermix 2X Methyl Amplification Mastermix	No specific data. No specific data.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer	No specific data. No specific data. No specific data. No specific data.
	Soft Conversion Reagent B Soft Conversion Binding Beads	No specific data. Adverse symptoms may include the following:  respiratory tract irritation coughing
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	No specific data.
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads Capture Beads	No specific data. No specific data.
	Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16	No specific data. No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.
<b>Skin contact</b>	: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation redness
	Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	Soft Conversion Reagent A	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths

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		skeletal malformations
	2X Amplification Mastermix	No specific data.
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM 1-8	No specific data.
	Index Primer Mix for ILM 9-16	No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.
<b>Ingestion</b>	: Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	Soft Conversion Reagent A	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	2X Amplification Mastermix	No specific data.
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Adverse symptoms may include the following: stomach pains
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following: stomach pains

## Section 4. First aid measures

Soft Conversion Repair Solution	No specific data.
Library Binding Beads	No specific data.
Capture Beads	No specific data.
Index Primer Mix for ILM 1-8	No specific data.
Index Primer Mix for ILM 9-16	No specific data.
Index Primer Mix for ILM 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.

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

<b>Notes to physician</b>	:	Nuclease-Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		End Prep Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		End Prep Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Ligation Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		Ligation Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Adapter for ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Hyb Blocker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Hyb Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		Hyb Enhancer	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.
		Soft Conversion Reagent A	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		2X Amplification Mastermix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		2X Methyl Amplification Mastermix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Library Wash Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Hyb Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Hyb Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Resuspension Buffer	Treat symptomatically. Contact poison treatment

## Section 4. First aid measures

Soft Conversion Reagent B	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.
Soft Conversion Binding Beads	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.
5X Soft Conversion Wash Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Soft Conversion Elution Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Soft Conversion Repair Solution	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.
Library Binding Beads	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Capture Beads	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Index Primer Mix for ILM 1-8	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Index Primer Mix for ILM 9-16	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Index Primer Mix for ILM 17-24	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Index Primer Mix for ILM 25-32	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### Specific treatments

: Nuclease-Free Water	No specific treatment.
End Prep Buffer	No specific treatment.
End Prep Enzyme	No specific treatment.
Ligation Buffer	No specific treatment.
Ligation Enzyme	No specific treatment.
Adapter for ILM	No specific treatment.
Hyb Blocker	No specific treatment.
Hyb Buffer	No specific treatment.
Hyb Enhancer	No specific treatment.
Soft Conversion Reagent A	No specific treatment.
2X Amplification Mastermix	No specific treatment.
2X Methyl Amplification Mastermix	No specific treatment.
Library Wash Buffer	No specific treatment.
Hyb Wash Buffer 1	No specific treatment.
Hyb Wash Buffer 2	No specific treatment.
Resuspension Buffer	No specific treatment.
Soft Conversion Reagent B	No specific treatment.
Soft Conversion Binding Beads	No specific treatment.
5X Soft Conversion Wash Buffer	No specific treatment.
Soft Conversion Elution Buffer	No specific treatment.
Soft Conversion Repair	No specific treatment.

## Section 4. First aid measures

	Solution	
	Library Binding Beads	No specific treatment.
	Capture Beads	No specific treatment.
	Index Primer Mix for ILM 1-8	No specific treatment.
	Index Primer Mix for ILM 9-16	No specific treatment.
	Index Primer Mix for ILM 17-24	No specific treatment.
	Index Primer Mix for ILM 25-32	No specific treatment.
<b>Protection of first-aiders</b>	: Nuclease-Free Water	No action shall be taken involving any personal risk or without suitable training.
	End Prep Buffer	No action shall be taken involving any personal risk or without suitable training.
	End Prep Enzyme	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Ligation Buffer	No action shall be taken involving any personal risk or without suitable training.
	Ligation Enzyme	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Adapter for ILM	No action shall be taken involving any personal risk or without suitable training.
	Hyb Blocker	No action shall be taken involving any personal risk or without suitable training.
	Hyb Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Hyb Enhancer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Soft Conversion Reagent A	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	2X Amplification Mastermix	No action shall be taken involving any personal risk or without suitable training.
	2X Methyl Amplification Mastermix	No action shall be taken involving any personal risk or without suitable training.
	Library Wash Buffer	No action shall be taken involving any personal risk or without suitable training.
	Hyb Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
	Hyb Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
	Resuspension Buffer	No action shall be taken involving any personal risk or without suitable training.
	Soft Conversion Reagent B	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

## Section 4. First aid measures

Soft Conversion Binding Beads	resuscitation. No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
5X Soft Conversion Wash Buffer	No action shall be taken involving any personal risk or without suitable training.
Soft Conversion Elution Buffer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Soft Conversion Repair Solution	No action shall be taken involving any personal risk or without suitable training.
Library Binding Beads	No action shall be taken involving any personal risk or without suitable training.
Capture Beads	No action shall be taken involving any personal risk or without suitable training.
Index Primer Mix for ILM 1-8	No action shall be taken involving any personal risk or without suitable training.
Index Primer Mix for ILM 9-16	No action shall be taken involving any personal risk or without suitable training.
Index Primer Mix for ILM 17-24	No action shall be taken involving any personal risk or without suitable training.
Index Primer Mix for ILM 25-32	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: Nuclease-Free Water	Use an extinguishing agent suitable for the surrounding fire.
	End Prep Buffer	Use an extinguishing agent suitable for the surrounding fire.
	End Prep Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	Adapter for ILM	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Blocker	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Enhancer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Reagent A	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	2X Amplification Mastermix	Use an extinguishing agent suitable for the surrounding fire.
	2X Methyl Amplification Mastermix	Use an extinguishing agent suitable for the surrounding fire.
	Library Wash Buffer	Use an extinguishing agent suitable for the



## Section 5. Firefighting measures

	Hyb Wash Buffer 1	surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
	Hyb Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
	Resuspension Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Reagent B	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Binding Beads	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	5X Soft Conversion Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Elution Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Repair Solution	Use an extinguishing agent suitable for the surrounding fire.
	Library Binding Beads	Use an extinguishing agent suitable for the surrounding fire.
	Capture Beads	Use an extinguishing agent suitable for the surrounding fire.
	Index Primer Mix for ILM 1-8	Use an extinguishing agent suitable for the surrounding fire.
	Index Primer Mix for ILM 9-16	Use an extinguishing agent suitable for the surrounding fire.
	Index Primer Mix for ILM 17-24	Use an extinguishing agent suitable for the surrounding fire.
	Index Primer Mix for ILM 25-32	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Nuclease-Free Water	None known.
	End Prep Buffer	None known.
	End Prep Enzyme	None known.
	Ligation Buffer	None known.
	Ligation Enzyme	None known.
	Adapter for ILM	None known.
	Hyb Blocker	None known.
	Hyb Buffer	None known.
	Hyb Enhancer	None known.
	Soft Conversion Reagent A	Do not use water jet.
	2X Amplification Mastermix	None known.
	2X Methyl Amplification Mastermix	None known.
	Library Wash Buffer	None known.
	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2	None known.
	Resuspension Buffer	None known.
	Soft Conversion Reagent B	None known.
	Soft Conversion Binding Beads	Do not use water jet.
	5X Soft Conversion Wash Buffer	None known.
	Soft Conversion Elution Buffer	None known.
	Soft Conversion Repair Solution	None known.
	Library Binding Beads	None known.
	Capture Beads	None known.
Index Primer Mix for ILM 1-8	None known.	
Index Primer Mix for ILM 9-16	None known.	
Index Primer Mix for ILM 17-24	None known.	
Index Primer Mix for ILM	None known.	

## Section 5. Firefighting measures

25-32

<b>Specific hazards arising from the chemical</b>	: Nuclease-Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	End Prep Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	End Prep Enzyme	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ligation Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ligation Enzyme	In a fire or if heated, a pressure increase will occur and the container may burst.
	Adapter for ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Blocker	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hyb Enhancer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Soft Conversion Reagent A	Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
	2X Amplification Mastermix	In a fire or if heated, a pressure increase will occur and the container may burst.
	2X Methyl Amplification Mastermix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Library Wash Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	Resuspension Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
Soft Conversion Reagent B	In a fire or if heated, a pressure increase will occur and the container may burst.	
Soft Conversion Binding Beads	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
5X Soft Conversion Wash Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.	
Soft Conversion Elution Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.	
Soft Conversion Repair Solution	In a fire or if heated, a pressure increase will occur and the container may burst.	
Library Binding Beads	In a fire or if heated, a pressure increase will occur and the container may burst.	

## Section 5. Firefighting measures

### Hazardous thermal decomposition products

Capture Beads	In a fire or if heated, a pressure increase will occur and the container may burst.
Index Primer Mix for ILM 1-8	In a fire or if heated, a pressure increase will occur and the container may burst.
Index Primer Mix for ILM 9-16	In a fire or if heated, a pressure increase will occur and the container may burst.
Index Primer Mix for ILM 17-24	In a fire or if heated, a pressure increase will occur and the container may burst.
Index Primer Mix for ILM 25-32	In a fire or if heated, a pressure increase will occur and the container may burst.
: Nuclease-Free Water End Prep Buffer	No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
End Prep Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Ligation Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Ligation Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Adapter for ILM Hyb Blocker Hyb Buffer	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
Hyb Enhancer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Soft Conversion Reagent A	Decomposition products may include the following materials: carbon dioxide carbon monoxide
2X Amplification Mastermix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
2X Methyl Amplification Mastermix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Library Wash Buffer	Decomposition products may include the following materials: carbon dioxide

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	carbon monoxide halogenated compounds metal oxide/oxides
Hyb Wash Buffer 1	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
Hyb Wash Buffer 2	No specific data.
Resuspension Buffer	No specific data.
Soft Conversion Reagent B	Decomposition products may include the following materials: nitrogen oxides sulfur oxides
Soft Conversion Binding Beads	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
5X Soft Conversion Wash Buffer	No specific data.
Soft Conversion Elution Buffer	No specific data.
Soft Conversion Repair Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Library Binding Beads	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
Capture Beads	No specific data.
Index Primer Mix for ILM 1-8	No specific data.
Index Primer Mix for ILM 9-16	No specific data.
Index Primer Mix for ILM 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.

### Special protective actions for fire-fighters

: Nuclease-Free Water	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.
End Prep 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.
End Prep Enzyme	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.
Ligation 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.
Ligation Enzyme	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

## Section 5. Firefighting measures

Adapter for ILM	without suitable training. 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.
Hyb Blocker	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.
Hyb 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.
Hyb Enhancer	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.
Soft Conversion Reagent A	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
2X Amplification Mastermix	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.
2X Methyl Amplification Mastermix	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.
Library Wash 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.
Hyb Wash Buffer 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.
Hyb Wash Buffer 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.
Resuspension 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.
Soft Conversion Reagent B	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.
Soft Conversion Binding Beads	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
5X Soft Conversion Wash 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.
Soft Conversion Elution Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

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		action shall be taken involving any personal risk or without suitable training.
	Soft Conversion Repair Solution	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.
	Library Binding Beads	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.
	Capture Beads	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.
	Index Primer Mix for ILM 1-8	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.
	Index Primer Mix for ILM 9-16	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.
	Index Primer Mix for ILM 17-24	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.
	Index Primer Mix for ILM 25-32	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.
<b>Special protective equipment for fire-fighters</b>	: Nuclease-Free Water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	End Prep Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	End Prep Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Ligation Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Ligation Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Adapter for ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Blocker	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Enhancer	Fire-fighters should wear appropriate protective



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	equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Soft Conversion Reagent A	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
2X Amplification Mastermix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
2X Methyl Amplification Mastermix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Library Wash Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hyb Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hyb Wash Buffer 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Resuspension Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Soft Conversion Reagent B	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Soft Conversion Binding Beads	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
5X Soft Conversion Wash Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Soft Conversion Elution Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Soft Conversion Repair Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Library Binding Beads	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Capture Beads	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Index Primer Mix for ILM 1-8	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



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Index Primer Mix for ILM 9-16	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Index Primer Mix for ILM 17-24	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Index Primer Mix for ILM 25-32	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Hazchem code

: Nuclease-Free Water	Not available.
End Prep Buffer	Not available.
End Prep Enzyme	Not available.
Ligation Buffer	Not available.
Ligation Enzyme	Not available.
Adapter for ILM	Not available.
Hyb Blocker	Not available.
Hyb Buffer	Not available.
Hyb Enhancer	Not available.
Soft Conversion Reagent A	Not available.
2X Amplification Mastermix	Not available.
2X Methyl Amplification Mastermix	Not available.
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion Reagent B	Not available.
Soft Conversion Binding Beads	3WE
5X Soft Conversion Wash Buffer	Not available.
Soft Conversion Elution Buffer	2X
Soft Conversion Repair Solution	Not available.
Library Binding Beads	Not available.
Capture Beads	Not available.
Index Primer Mix for ILM 1-8	Not available.
Index Primer Mix for ILM 9-16	Not available.
Index Primer Mix for ILM 17-24	Not available.
Index Primer Mix for ILM 25-32	Not available.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: Nuclease-Free Water	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.
End Prep 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.

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End Prep Enzyme	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Ligation 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.
Ligation Enzyme	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Adapter for 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.
Hyb Blocker	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.
Hyb 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Hyb Enhancer	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Soft Conversion Reagent A	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
2X Amplification Mastermix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

## Section 6. Accidental release measures

	personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
2X Methyl Amplification Mastermix	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.
Library Wash 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.
Hyb Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Hyb Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Resuspension 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.
Soft Conversion Reagent B	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Soft Conversion Binding Beads	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
5X Soft Conversion Wash 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.
Soft Conversion Elution 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate

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Soft Conversion Repair Solution	respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Library Binding Beads	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.
Capture Beads	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.
Index Primer Mix for ILM 1-8	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.
Index Primer Mix for ILM 9-16	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.
Index Primer Mix for ILM 17-24	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.
Index Primer Mix for ILM 25-32	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b> : Nuclease-Free Water	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".
End Prep 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".
End Prep Enzyme	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".
Ligation 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".
Ligation Enzyme	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

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Adapter for ILM	information in "For non-emergency personnel". 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".
Hyb Blocker	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".
Hyb 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".
Hyb Enhancer	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".
Soft Conversion Reagent A	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".
2X Amplification Mastermix	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".
2X Methyl Amplification Mastermix	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".
Library Wash 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".
Hyb Wash Buffer 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".
Hyb Wash Buffer 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".
Resuspension 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".
Soft Conversion Reagent B	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".
Soft Conversion Binding Beads	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".
5X Soft Conversion Wash 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".
Soft Conversion Elution 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".
Soft Conversion Repair Solution	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

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Library Binding Beads	information in "For non-emergency personnel". 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".
Capture Beads	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".
Index Primer Mix for ILM 1-8	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".
Index Primer Mix for ILM 9-16	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".
Index Primer Mix for ILM 17-24	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".
Index Primer Mix for ILM 25-32	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".

<b>Environmental precautions</b> : Nuclease-Free Water	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).
End Prep 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). Water polluting material. May be harmful to the environment if released in large quantities.
End Prep Enzyme	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).
Ligation 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).
Ligation Enzyme	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).
Adapter for 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).
Hyb Blocker	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).
Hyb Buffer	Avoid dispersal of spilt material and runoff and



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	contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Hyb Enhancer	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).
Soft Conversion Reagent A	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).
2X Amplification Mastermix	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).
2X Methyl Amplification Mastermix	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).
Library Wash 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).
Hyb Wash Buffer 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).
Hyb Wash Buffer 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).
Resuspension 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).
Soft Conversion Reagent B	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).
Soft Conversion Binding Beads	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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
5X Soft Conversion Wash 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).
Soft Conversion Elution	Avoid dispersal of spilt material and runoff and

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Buffer	contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Soft Conversion Repair Solution	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).
Library Binding Beads	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).
Capture Beads	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).
Index Primer Mix for ILM 1-8	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).
Index Primer Mix for ILM 9-16	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).
Index Primer Mix for ILM 17-24	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).
Index Primer Mix for ILM 25-32	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).

### Methods and material for containment and cleaning up

**Methods for cleaning up** : Nuclease-Free Water

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

## Section 6. Accidental release measures

	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Ligation Enzyme	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.
Adapter for 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.
Hyb Blocker	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.
Hyb 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.
Hyb Enhancer	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.
Soft Conversion Reagent A	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
2X Amplification Mastermix	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.
2X Methyl Amplification Mastermix	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.
Library Wash 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.
Hyb Wash Buffer 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.

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Hyb Wash Buffer 2	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.
Resuspension 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.
Soft Conversion Reagent B	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.
Soft Conversion Binding Beads	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
5X Soft Conversion Wash 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.
Soft Conversion Elution Buffer	Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
Soft Conversion Repair Solution	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.
Library Binding Beads	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.
Capture Beads	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.
Index Primer Mix for ILM 1-8	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.
Index Primer Mix for ILM	Stop leak if without risk. Move containers from spill

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9-16	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.
Index Primer Mix for ILM 17-24	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.
Index Primer Mix for ILM 25-32	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

<b>Protective measures</b>	:	Nuclease-Free Water	Put on appropriate personal protective equipment (see Section 8).
		End Prep Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
		End Prep Enzyme	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
		Ligation Buffer	Put on appropriate personal protective equipment (see Section 8).
		Ligation Enzyme	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
		Adapter for ILM	Put on appropriate personal protective equipment (see Section 8).
		Hyb Blocker	Put on appropriate personal protective equipment (see Section 8).
		Hyb Buffer	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be

## Section 7. Handling and storage

Hyb Enhancer	hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Soft Conversion Reagent A	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
2X Amplification Mastermix	Put on appropriate personal protective equipment (see Section 8).
2X Methyl Amplification Mastermix	Put on appropriate personal protective equipment (see Section 8).
Library Wash Buffer	Put on appropriate personal protective equipment (see Section 8).
Hyb Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
Hyb Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
Resuspension Buffer	Put on appropriate personal protective equipment (see Section 8).
Soft Conversion Reagent B	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Soft Conversion Binding Beads	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical



## Section 7. Handling and storage

(ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

5X Soft Conversion Wash Buffer  
Soft Conversion Elution Buffer

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

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

Soft Conversion Repair Solution  
Library Binding Beads

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

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

Capture Beads

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

Index Primer Mix for ILM 1-8

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

Index Primer Mix for ILM 9-16

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

Index Primer Mix for ILM 17-24

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

Index Primer Mix for ILM 25-32

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

### Advice on general occupational hygiene

: Nuclease-Free Water

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.

End Prep 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.

End Prep Enzyme

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.

Ligation 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.

Ligation Enzyme

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

## Section 7. Handling and storage

Adapter for ILM	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.
Hyb Blocker	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.
Hyb 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.
Hyb Enhancer	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.
Soft Conversion Reagent A	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.
2X Amplification Mastermix	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.
2X Methyl Amplification Mastermix	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.
Library Wash 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.
Hyb Wash Buffer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

## Section 7. Handling and storage

	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.
Hyb Wash Buffer 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.
Resuspension 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.
Soft Conversion Reagent B	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.
Soft Conversion Binding Beads	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.
5X Soft Conversion Wash 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.
Soft Conversion Elution 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.
Soft Conversion Repair Solution	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.
Library Binding Beads	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.
Capture Beads	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

## Section 7. Handling and storage

Index Primer Mix for ILM 1-8	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.
Index Primer Mix for ILM 9-16	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.
Index Primer Mix for ILM 17-24	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.
Index Primer Mix for ILM 25-32	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.

**Conditions for safe storage, including any incompatibilities** : Nuclease-Free Water

End Prep 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.
End Prep Enzyme	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

## Section 7. Handling and storage

Ligation Buffer

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

Ligation Enzyme

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.

Adapter for 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.

Hyb Blocker

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.

Hyb 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. Store locked up. 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.

Hyb Enhancer

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. Store locked up. Keep container tightly closed



## Section 7. Handling and storage

Soft Conversion Reagent A	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. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
2X Amplification Mastermix	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.
2X Methyl Amplification Mastermix	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.
Library Wash 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.
Hyb Wash Buffer 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.



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Hyb Wash Buffer 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.
Resuspension 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.
Soft Conversion Reagent B	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.
Soft Conversion Binding Beads	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
5X Soft Conversion Wash 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.
Soft Conversion Elution 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. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use.

## Section 7. Handling and storage

	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.
Soft Conversion Repair Solution	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.
Library Binding Beads	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.
Capture Beads	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.
Index Primer Mix for ILM 1-8	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.
Index Primer Mix for ILM 9-16	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.
Index Primer Mix for ILM 17-24	Store in accordance with local regulations. Store in original container protected from direct sunlight in a

## Section 7. Handling and storage

Index Primer Mix for ILM  
25-32

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. 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.

## Section 8. Exposure controls and personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

Ingredient name	Exposure limits
<b>End Prep Enzyme</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Ligation Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	<b>DFG MAC-values list (Germany, 7/2023).</b> PEAK: 400 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction
<b>Ligation Enzyme</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Hyb Enhancer</b> Formamide  Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	<b>Safe Work Australia (Australia, 10/2022).</b> <b>Absorbed through skin.</b> TWA: 18 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. <b>DFG MAC-values list (Germany, 7/2023).</b> PEAK: 400 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction
<b>2X Amplification Mastermix</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Library Wash Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	<b>DFG MAC-values list (Germany, 7/2023).</b> PEAK: 400 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: inhalable fraction

## Section 8. Exposure controls and personal protection

<p><b>Soft Conversion Binding Beads</b> Ethanol</p> <p><b>Library Binding Beads</b> Poly(oxy-1,2-ethanediyl),<math>\alpha</math>-hydro-<math>\omega</math>-hydroxy- Ethane-1,2-diol, ethoxylated</p>	<p>TWA: 200 mg/m<sup>3</sup> 8 hours. Form: inhalable fraction</p> <p><b>Safe Work Australia (Australia, 10/2022).</b> TWA: 1880 mg/m<sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours.</p> <p><b>DFG MAC-values list (Germany, 7/2023).</b> PEAK: 400 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m<sup>3</sup> 8 hours. Form: inhalable fraction</p>
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### Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

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

### Appearance

<b>Physical state</b>	:	Nuclease-Free Water	Liquid.
		End Prep Buffer	Liquid.
		End Prep Enzyme	Liquid.
		Ligation Buffer	Liquid.
		Ligation Enzyme	Liquid.
		Adapter for ILM	Liquid.
		Hyb Blocker	Liquid.
		Hyb Buffer	Liquid.
		Hyb Enhancer	Liquid.
		Soft Conversion Reagent A	Liquid.
		2X Amplification Mastermix	Liquid.
		2X Methyl Amplification Mastermix	Liquid. [Clear.]
		Library Wash Buffer	Liquid.
		Hyb Wash Buffer 1	Liquid.
		Hyb Wash Buffer 2	Liquid.
		Resuspension Buffer	Liquid.
		Soft Conversion Reagent B	Liquid.
		Soft Conversion Binding Beads	Liquid.
		5X Soft Conversion Wash Buffer	Liquid.
		Soft Conversion Elution Buffer	Liquid.
		Soft Conversion Repair Solution	Liquid.
		Library Binding Beads	Liquid.
		Capture Beads	Liquid.
		Index Primer Mix for ILM 1-8	Liquid.
		Index Primer Mix for ILM 9-16	Liquid.
		Index Primer Mix for ILM 17-24	Liquid.
		Index Primer Mix for ILM 25-32	Liquid.

<b>Colour</b>	:	Nuclease-Free Water	Colourless.
		End Prep Buffer	Not available.
		End Prep Enzyme	Not available.
		Ligation Buffer	Not available.
		Ligation Enzyme	Not available.
		Adapter for ILM	Not available.
		Hyb Blocker	Not available.
		Hyb Buffer	Not available.
		Hyb Enhancer	Not available.
		Soft Conversion Reagent A	Not available.
		2X Amplification Mastermix	Not available.
		2X Methyl Amplification Mastermix	Not available.
		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	Not available.
		Soft Conversion Reagent B	Not available.
		Soft Conversion Binding Beads	Not available.
		5X Soft Conversion Wash Buffer	Not available.

## Section 9. Physical and chemical properties and safety characteristics

	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	Not available.
	Index Primer Mix for ILM 9-16	Not available.
	Index Primer Mix for ILM 17-24	Not available.
	Index Primer Mix for ILM 25-32	Not available.
<b>Odour</b>	: Nuclease-Free Water	Odourless.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	Not available.
	Index Primer Mix for ILM 9-16	Not available.
	Index Primer Mix for ILM 17-24	Not available.
	Index Primer Mix for ILM 25-32	Not available.
<b>Odour threshold</b>	: Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	Not available.



## Section 9. Physical and chemical properties and safety characteristics

	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	Not available.
	Index Primer Mix for ILM 9-16	Not available.
	Index Primer Mix for ILM 17-24	Not available.
	Index Primer Mix for ILM 25-32	Not available.
pH	: Nuclease-Free Water	7
	End Prep Buffer	8
	End Prep Enzyme	7.5
	Ligation Buffer	8
	Ligation Enzyme	7.5
	Adapter for ILM	8
	Hyb Blocker	8
	Hyb Buffer	7.5
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	8.6
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	7.2 to 7.6
	Hyb Wash Buffer 2	7.2 to 7.6
	Resuspension Buffer	8
	Soft Conversion Reagent B	4.5 to 5.5
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	13
	Soft Conversion Repair Solution	8
	Library Binding Beads	8
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	8
	Index Primer Mix for ILM 9-16	8
	Index Primer Mix for ILM 17-24	8
	Index Primer Mix for ILM 25-32	8

## Section 9. Physical and chemical properties and safety characteristics

<b>Melting point/freezing point</b>	Nuclease-Free Water	0°C (32°F)
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	0°C (32°F)
	Hyb Blocker	0°C (32°F)
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	<-120°C (<-184°F)
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	0°C (32°F)
	Hyb Wash Buffer 2	0°C (32°F)
	Resuspension Buffer	0°C (32°F)
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	0°C (32°F)
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	0°C (32°F)
	Index Primer Mix for ILM 9-16	0°C (32°F)
	Index Primer Mix for ILM 17-24	0°C (32°F)
	Index Primer Mix for ILM 25-32	0°C (32°F)

<b>Boiling point, initial boiling point, and boiling range</b>	Nuclease-Free Water	100°C (212°F)
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	100°C (212°F)
	Hyb Blocker	100°C (212°F)
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	177.7°C (351.9°F)
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	100°C (212°F)
	Hyb Wash Buffer 2	100°C (212°F)
	Resuspension Buffer	100°C (212°F)
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	100°C (212°F)
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.

## Section 9. Physical and chemical properties and safety characteristics

**Flash point**

Library Binding Beads	Not available.
Capture Beads	Not available.
Index Primer Mix for ILM 1-8	100°C (212°F)
Index Primer Mix for ILM 9-16	100°C (212°F)
Index Primer Mix for ILM 17-24	100°C (212°F)
Index Primer Mix for ILM 25-32	100°C (212°F)
<b>Flash point</b> : Nuclease-Free Water	Not available.
End Prep Buffer	Not available.
End Prep Enzyme	Not available.
Ligation Buffer	Not available.
Ligation Enzyme	Not available.
Adapter for ILM	Not available.
Hyb Blocker	Not available.
Hyb Buffer	Not available.
Hyb Enhancer	Not available.
Soft Conversion Reagent A	Closed cup: 73°C (163.4°F)
2X Amplification Mastermix	Not available.
2X Methyl Amplification Mastermix	Not available.
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion Reagent B	Not available.
Soft Conversion Binding Beads	Closed cup: 37.8 to 61°C (100 to 141.8°F)
5X Soft Conversion Wash Buffer	Not available.
Soft Conversion Elution Buffer	Not available.
Soft Conversion Repair Solution	Not available.
Library Binding Beads	Not available.
Capture Beads	Not available.
Index Primer Mix for ILM 1-8	Not available.
Index Primer Mix for ILM 9-16	Not available.
Index Primer Mix for ILM 17-24	Not available.
Index Primer Mix for ILM 25-32	Not available.

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>End Prep Enzyme</b>						
Glycerol	-	-	-	177	350.6	-
<b>Ligation Buffer</b>						
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-

## Section 9. Physical and chemical properties and safety characteristics

<b>Ligation Enzyme</b>							
Glycerol	-	-	-	-	177	350.6	-
<b>Hyb Enhancer</b>							
Formamide	150	302	-	-	152	305.6	DIN EN ISO 2592
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	-	199 to 238	390.2 to 460.4	-
<b>2X Amplification Mastermix</b>							
Glycerol	-	-	-	-	177	350.6	-
<b>Library Wash Buffer</b>							
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	-	199 to 238	390.2 to 460.4	-
<b>Library Binding Beads</b>							
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	-	199 to 238	390.2 to 460.4	-

<b>Evaporation rate</b>	:	Nuclease-Free Water	Not available.
		End Prep Buffer	Not available.
		End Prep Enzyme	Not available.
		Ligation Buffer	Not available.
		Ligation Enzyme	Not available.
		Adapter for ILM	Not available.
		Hyb Blocker	Not available.
		Hyb Buffer	Not available.
		Hyb Enhancer	Not available.
		Soft Conversion Reagent A	Not available.
		2X Amplification Mastermix	Not available.
		2X Methyl Amplification Mastermix	Not available.
		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	Not available.
		Soft Conversion Reagent B	Not available.
		Soft Conversion Binding Beads	Not available.
		5X Soft Conversion Wash	Not available.

## Section 9. Physical and chemical properties and safety characteristics

	Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	Not available.
	Index Primer Mix for ILM 9-16	Not available.
	Index Primer Mix for ILM 17-24	Not available.
	Index Primer Mix for ILM 25-32	Not available.
<b>Flammability</b>	: Nuclease-Free Water	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion Reagent A	Not applicable.
	2X Amplification Mastermix	Not applicable.
	2X Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	Soft Conversion Reagent B	Not applicable.
	Soft Conversion Binding Beads	Not applicable.
	5X Soft Conversion Wash Buffer	Not applicable.
	Soft Conversion Elution Buffer	Not applicable.
	Soft Conversion Repair Solution	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM 1-8	Not applicable.
	Index Primer Mix for ILM 9-16	Not applicable.
	Index Primer Mix for ILM 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
<b>Lower and upper explosion limit/flammability limit</b>	: Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	Not available.

## Section 9. Physical and chemical properties and safety characteristics

Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion Reagent B	Not available.
Soft Conversion Binding Beads	Not available.
5X Soft Conversion Wash Buffer	Not available.
Soft Conversion Elution Buffer	Not available.
Soft Conversion Repair Solution	Not available.
Library Binding Beads	Not available.
Capture Beads	Not available.
Index Primer Mix for ILM 1-8	Not available.
Index Primer Mix for ILM 9-16	Not available.
Index Primer Mix for ILM 17-24	Not available.
Index Primer Mix for ILM 25-32	Not available.

**Vapour pressure** : Nuclease-Free Water 2.3 kPa (17.5 mm Hg) [room temperature]  
12.3 kPa (92.258 mm Hg) [50°C (122°F)]

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>End Prep Buffer</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>End Prep Enzyme</b>						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>Ligation Buffer</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>Ligation Enzyme</b>						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>Adapter for ILM</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>Hyb Blocker</b>						
water	17.5	2.3	-	92.258	12.3	-



## Section 9. Physical and chemical properties and safety characteristics

<b>Hyb Buffer</b>							
water	17.5	2.3	-		92.258	12.3	-
tetramethylammonium chloride	0.000000001	0.0000000013	-	EU A.4	-	-	-
<b>Hyb Enhancer</b>							
Formamide	0.045	0.006	-		-	-	-
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	0.00000003	0.00000004	-		-	-	-
<b>Soft Conversion Reagent A</b>							
tetrahydro-2-furylmethanol	1.4	0.19	-		-	-	-
<b>2X Amplification Mastermix</b>							
Glycerol	0.000075	0.00001	-		0.0025	0.00033	-
<b>2X Methyl Amplification Mastermix</b>							
water	17.5	2.3	-		92.258	12.3	-
<b>Library Wash Buffer</b>							
water	17.5	2.3	-		92.258	12.3	-
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	0.00000003	0.00000004	-		-	-	-
<b>Hyb Wash Buffer 1</b>							
water	17.5	2.3	-		92.258	12.3	-
<b>Hyb Wash Buffer 2</b>							
water	17.5	2.3	-		92.258	12.3	-

## Section 9. Physical and chemical properties and safety characteristics

<b>Resuspension Buffer</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Soft Conversion Reagent B</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Soft Conversion Binding Beads</b>							
Ethanol	42.94865	5.7	-	-	-	-	
water	17.5	2.3	-	92.258	12.3	-	
<b>5X Soft Conversion Wash Buffer</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Soft Conversion Elution Buffer</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Soft Conversion Repair Solution</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Library Binding Beads</b>							
water	17.5	2.3	-	92.258	12.3	-	
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-	
<b>Capture Beads</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Index Primer Mix for ILM 1-8</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Index Primer Mix</b>							

## Section 9. Physical and chemical properties and safety characteristics

<b>for ILM 9-16</b>							
water	17.5	2.3	-		92.258	12.3	-
<b>Index Primer Mix for ILM 17-24</b>							
water	17.5	2.3	-		92.258	12.3	-
<b>Index Primer Mix for ILM 25-32</b>							

**Relative vapour density** :

Nuclease-Free Water	0.62 [Air = 1]
End Prep Buffer	Not available.
End Prep Enzyme	Not available.
Ligation Buffer	Not available.
Ligation Enzyme	Not available.
Adapter for ILM	Not available.
Hyb Blocker	Not available.
Hyb Buffer	Not available.
Hyb Enhancer	Not available.
Soft Conversion Reagent A	Not available.
2X Amplification Mastermix	Not available.
2X Methyl Amplification Mastermix	Not available.
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion Reagent B	Not available.
Soft Conversion Binding Beads	Not available.
5X Soft Conversion Wash Buffer	Not available.
Soft Conversion Elution Buffer	Not available.
Soft Conversion Repair Solution	Not available.
Library Binding Beads	Not available.
Capture Beads	Not available.
Index Primer Mix for ILM 1-8	Not available.
Index Primer Mix for ILM 9-16	Not available.
Index Primer Mix for ILM 17-24	Not available.
Index Primer Mix for ILM 25-32	Not available.

**Relative density** :

Nuclease-Free Water	1
End Prep Buffer	Not available.
End Prep Enzyme	Not available.
Ligation Buffer	Not available.
Ligation Enzyme	Not available.
Adapter for ILM	Not available.
Hyb Blocker	Not available.
Hyb Buffer	Not available.
Hyb Enhancer	Not available.
Soft Conversion Reagent A	Not available.
2X Amplification Mastermix	Not available.
2X Methyl Amplification Mastermix	Not available.

## Section 9. Physical and chemical properties and safety characteristics

Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion Reagent B	Not available.
Soft Conversion Binding Beads	Not available.
5X Soft Conversion Wash Buffer	Not available.
Soft Conversion Elution Buffer	Not available.
Soft Conversion Repair Solution	Not available.
Library Binding Beads	Not available.
Capture Beads	Not available.
Index Primer Mix for ILM 1-8	Not available.
Index Primer Mix for ILM 9-16	Not available.
Index Primer Mix for ILM 17-24	Not available.
Index Primer Mix for ILM 25-32	Not available.

**Solubility(ies)**

<b>Media</b>	<b>Result</b>
<b>Nuclease-Free Water</b> water	Soluble
<b>End Prep Buffer</b> water	Soluble
<b>End Prep Enzyme</b> water	Soluble
<b>Ligation Buffer</b> water	Soluble
<b>Ligation Enzyme</b> water	Soluble
<b>Adapter for ILM</b> water	Soluble
<b>Hyb Blocker</b> water	Soluble
<b>Hyb Buffer</b> water	Soluble
<b>Hyb Enhancer</b> water	Soluble
<b>Soft Conversion Reagent A</b> water	Soluble
<b>2X Methyl Amplification Mastermix</b> water	Soluble
<b>Library Wash Buffer</b> water	Soluble
<b>Hyb Wash Buffer 1</b> water	Soluble
<b>Hyb Wash Buffer 2</b> water	Soluble
<b>Resuspension Buffer</b> water	Soluble
<b>Soft Conversion Reagent B</b> water	Soluble
<b>Soft Conversion Binding Beads</b> water	Soluble
<b>5X Soft Conversion Wash Buffer</b> water	Soluble
<b>Soft Conversion Elution Buffer</b>	

## Section 9. Physical and chemical properties and safety characteristics

water	Soluble
<b>Soft Conversion Repair Solution</b>	
water	Soluble
<b>Library Binding Beads</b>	
water	Soluble
<b>Capture Beads</b>	
water	Soluble
<b>Index Primer Mix for ILM 1-8</b>	
water	Soluble
<b>Index Primer Mix for ILM 9-16</b>	
water	Soluble
<b>Index Primer Mix for ILM 17-24</b>	
water	Soluble
<b>Index Primer Mix for ILM 25-32</b>	
water	Soluble

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

: Nuclease-Free Water	-1.38
End Prep Buffer	Not applicable.
End Prep Enzyme	Not applicable.
Ligation Buffer	Not applicable.
Ligation Enzyme	Not applicable.
Adapter for ILM	Not applicable.
Hyb Blocker	Not applicable.
Hyb Buffer	Not applicable.
Hyb Enhancer	Not applicable.
Soft Conversion Reagent A	Not applicable.
2X Amplification Mastermix	Not applicable.
2X Methyl Amplification Mastermix	Not applicable.
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	Not applicable.
Resuspension Buffer	Not applicable.
Soft Conversion Reagent B	Not applicable.
Soft Conversion Binding Beads	Not applicable.
5X Soft Conversion Wash Buffer	Not applicable.
Soft Conversion Elution Buffer	Not applicable.
Soft Conversion Repair Solution	Not applicable.
Library Binding Beads	Not applicable.
Capture Beads	Not applicable.
Index Primer Mix for ILM 1-8	Not applicable.
Index Primer Mix for ILM 9-16	Not applicable.
Index Primer Mix for ILM 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.

**Auto-ignition temperature**

: Nuclease-Free Water	Not applicable.
2X Methyl Amplification Mastermix	215°C (419°F)

## Section 9. Physical and chemical properties and safety characteristics

Ingredient name	°C	°F	Method
<b>End Prep Enzyme</b>			
Glycerol	370	698	-
<b>Ligation Buffer</b>			
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	680	-
<b>Ligation Enzyme</b>			
Glycerol	370	698	-
<b>Hyb Enhancer</b>			
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	680	-
Formamide	>500	>932	ASTM D 2155-66
<b>Soft Conversion Reagent A</b>			
tetrahydro-2-furylmethanol	282	539.6	-
<b>2X Amplification Mastermix</b>			
Glycerol	370	698	-
<b>Library Wash Buffer</b>			
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	680	-
<b>Soft Conversion Binding Beads</b>			
Ethanol	455	851	DIN 51794
<b>Library Binding Beads</b>			
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	680	-

<b>Decomposition temperature</b>	Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.



## Section 9. Physical and chemical properties and safety characteristics

	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	Not available.
	Index Primer Mix for ILM 9-16	Not available.
	Index Primer Mix for ILM 17-24	Not available.
	Index Primer Mix for ILM 25-32	Not available.
<b>Viscosity</b>	: Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	Not available.
	Index Primer Mix for ILM 9-16	Not available.
	Index Primer Mix for ILM 17-24	Not available.

## Section 9. Physical and chemical properties and safety characteristics

Index Primer Mix for ILM 25-32 Not available.

### Particle characteristics

#### Median particle size

: Nuclease-Free Water	Not applicable.
End Prep Buffer	Not applicable.
End Prep Enzyme	Not applicable.
Ligation Buffer	Not applicable.
Ligation Enzyme	Not applicable.
Adapter for ILM	Not applicable.
Hyb Blocker	Not applicable.
Hyb Buffer	Not applicable.
Hyb Enhancer	Not applicable.
Soft Conversion Reagent A	Not applicable.
2X Amplification Mastermix	Not applicable.
2X Methyl Amplification Mastermix	Not applicable.
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	Not applicable.
Resuspension Buffer	Not applicable.
Soft Conversion Reagent B	Not applicable.
Soft Conversion Binding Beads	Not applicable.
5X Soft Conversion Wash Buffer	Not applicable.
Soft Conversion Elution Buffer	Not applicable.
Soft Conversion Repair Solution	Not applicable.
Library Binding Beads	Not applicable.
Capture Beads	Not applicable.
Index Primer Mix for ILM 1-8	Not applicable.
Index Primer Mix for ILM 9-16	Not applicable.
Index Primer Mix for ILM 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.

## Section 10. Stability and reactivity

### Reactivity

: Nuclease-Free Water	No specific test data related to reactivity available for this product or its ingredients.
End Prep Buffer	No specific test data related to reactivity available for this product or its ingredients.
End Prep Enzyme	No specific test data related to reactivity available for this product or its ingredients.
Ligation Buffer	No specific test data related to reactivity available for this product or its ingredients.
Ligation Enzyme	No specific test data related to reactivity available for this product or its ingredients.
Adapter for ILM	No specific test data related to reactivity available for this product or its ingredients.
Hyb Blocker	No specific test data related to reactivity available for this product or its ingredients.
Hyb Buffer	No specific test data related to reactivity available for this product or its ingredients.
Hyb Enhancer	No specific test data related to reactivity available for this product or its ingredients.
Soft Conversion Reagent A	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

2X Amplification Mastermix	No specific test data related to reactivity available for this product or its ingredients.
2X Methyl Amplification Mastermix	No specific test data related to reactivity available for this product or its ingredients.
Library Wash Buffer	No specific test data related to reactivity available for this product or its ingredients.
Hyb Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
Hyb Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
Resuspension Buffer	No specific test data related to reactivity available for this product or its ingredients.
Soft Conversion Reagent B	No specific test data related to reactivity available for this product or its ingredients.
Soft Conversion Binding Beads	No specific test data related to reactivity available for this product or its ingredients.
5X Soft Conversion Wash Buffer	No specific test data related to reactivity available for this product or its ingredients.
Soft Conversion Elution Buffer	No specific test data related to reactivity available for this product or its ingredients.
Soft Conversion Repair Solution	No specific test data related to reactivity available for this product or its ingredients.
Library Binding Beads	No specific test data related to reactivity available for this product or its ingredients.
Capture Beads	No specific test data related to reactivity available for this product or its ingredients.
Index Primer Mix for ILM 1-8	No specific test data related to reactivity available for this product or its ingredients.
Index Primer Mix for ILM 9-16	No specific test data related to reactivity available for this product or its ingredients.
Index Primer Mix for ILM 17-24	No specific test data related to reactivity available for this product or its ingredients.
Index Primer Mix for ILM 25-32	No specific test data related to reactivity available for this product or its ingredients.

### Chemical stability

: Nuclease-Free Water	The product is stable.
End Prep Buffer	The product is stable.
End Prep Enzyme	The product is stable.
Ligation Buffer	The product is stable.
Ligation Enzyme	The product is stable.
Adapter for ILM	The product is stable.
Hyb Blocker	The product is stable.
Hyb Buffer	The product is stable.
Hyb Enhancer	The product is stable.
Soft Conversion Reagent A	The product is stable.
2X Amplification Mastermix	The product is stable.
2X Methyl Amplification Mastermix	The product is stable.
Library Wash Buffer	The product is stable.
Hyb Wash Buffer 1	The product is stable.
Hyb Wash Buffer 2	The product is stable.
Resuspension Buffer	The product is stable.
Soft Conversion Reagent B	The product is stable.
Soft Conversion Binding Beads	The product is stable.
5X Soft Conversion Wash Buffer	The product is stable.
Soft Conversion Elution Buffer	The product is stable.
Soft Conversion Repair Solution	The product is stable.
Library Binding Beads	The product is stable.
Capture Beads	The product is stable.

## Section 10. Stability and reactivity

Index Primer Mix for ILM 1-8	The product is stable.
Index Primer Mix for ILM 9-16	The product is stable.
Index Primer Mix for ILM 17-24	The product is stable.
Index Primer Mix for ILM 25-32	The product is stable.

### Possibility of hazardous reactions

: Nuclease-Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
End Prep Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
End Prep Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
Ligation Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Ligation Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
Adapter for ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
Hyb Blocker	Under normal conditions of storage and use, hazardous reactions will not occur.
Hyb Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Hyb Enhancer	Under normal conditions of storage and use, hazardous reactions will not occur.
Soft Conversion Reagent A	Under normal conditions of storage and use, hazardous reactions will not occur.
2X Amplification Mastermix	Under normal conditions of storage and use, hazardous reactions will not occur.
2X Methyl Amplification Mastermix	Under normal conditions of storage and use, hazardous reactions will not occur.
Library Wash Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Hyb Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
Hyb Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
Resuspension Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Soft Conversion Reagent B	Under normal conditions of storage and use, hazardous reactions will not occur.
Soft Conversion Binding Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
5X Soft Conversion Wash Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Soft Conversion Elution Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Soft Conversion Repair Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
Library Binding Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
Capture Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
Index Primer Mix for ILM 1-8	Under normal conditions of storage and use, hazardous reactions will not occur.
Index Primer Mix for ILM 9-16	Under normal conditions of storage and use, hazardous reactions will not occur.
Index Primer Mix for ILM 17-24	Under normal conditions of storage and use, hazardous reactions will not occur.
Index Primer Mix for ILM 25-32	Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

<b>Conditions to avoid</b>	:	Nuclease-Free Water	No specific data.
		End Prep Buffer	No specific data.
		End Prep Enzyme	No specific data.
		Ligation Buffer	No specific data.
		Ligation Enzyme	No specific data.
		Adapter for ILM	No specific data.
		Hyb Blocker	No specific data.
		Hyb Buffer	No specific data.
		Hyb Enhancer	No specific data.
		Soft Conversion Reagent A	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
		2X Amplification Mastermix	No specific data.
		2X Methyl Amplification Mastermix	No specific data.
		Library Wash Buffer	No specific data.
		Hyb Wash Buffer 1	No specific data.
		Hyb Wash Buffer 2	No specific data.
		Resuspension Buffer	No specific data.
		Soft Conversion Reagent B	No specific data.
		Soft Conversion Binding Beads	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
		5X Soft Conversion Wash Buffer	No specific data.
		Soft Conversion Elution Buffer	No specific data.
	Soft Conversion Repair Solution	No specific data.	
	Library Binding Beads	No specific data.	
	Capture Beads	No specific data.	
	Index Primer Mix for ILM 1-8	No specific data.	
	Index Primer Mix for ILM 9-16	No specific data.	
	Index Primer Mix for ILM 17-24	No specific data.	
	Index Primer Mix for ILM 25-32	No specific data.	
<b>Incompatible materials</b>	:	Nuclease-Free Water	May react or be incompatible with oxidising materials.
		End Prep Buffer	May react or be incompatible with oxidising materials.
		End Prep Enzyme	May react or be incompatible with oxidising materials.
		Ligation Buffer	May react or be incompatible with oxidising materials.
		Ligation Enzyme	May react or be incompatible with oxidising materials.
		Adapter for ILM	May react or be incompatible with oxidising materials.
		Hyb Blocker	May react or be incompatible with oxidising materials.
		Hyb Buffer	May react or be incompatible with oxidising materials.
		Hyb Enhancer	May react or be incompatible with oxidising materials.
		Soft Conversion Reagent A	Reactive or incompatible with the following materials: oxidising materials
		2X Amplification Mastermix	May react or be incompatible with oxidising materials.
		2X Methyl Amplification Mastermix	May react or be incompatible with oxidising materials.
		Library Wash Buffer	May react or be incompatible with oxidising materials.
		Hyb Wash Buffer 1	May react or be incompatible with oxidising materials.
		Hyb Wash Buffer 2	May react or be incompatible with oxidising materials.
		Resuspension Buffer	May react or be incompatible with oxidising materials.
	Soft Conversion Reagent B	May react or be incompatible with oxidising materials.	
	Soft Conversion Binding Beads	Reactive or incompatible with the following materials: oxidising materials	
	5X Soft Conversion Wash Buffer	May react or be incompatible with oxidising materials.	

## Section 10. Stability and reactivity

Soft Conversion Elution Buffer	Reactive or incompatible with the following materials: acids
Soft Conversion Repair Solution	May react or be incompatible with oxidising materials.
Library Binding Beads	May react or be incompatible with oxidising materials.
Capture Beads	May react or be incompatible with oxidising materials.
Index Primer Mix for ILM 1-8	May react or be incompatible with oxidising materials.
Index Primer Mix for ILM 9-16	May react or be incompatible with oxidising materials.
Index Primer Mix for ILM 17-24	May react or be incompatible with oxidising materials.
Index Primer Mix for ILM 25-32	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	
: Nuclease-Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
End Prep Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
End Prep Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Ligation Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Ligation Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Adapter for ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Blocker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Enhancer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Soft Conversion Reagent A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
2X Amplification Mastermix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
2X Methyl Amplification Mastermix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Library Wash Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Resuspension Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.



## Section 10. Stability and reactivity

Soft Conversion Reagent B	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Soft Conversion Binding Beads	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
5X Soft Conversion Wash Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Soft Conversion Elution Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Soft Conversion Repair Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Library Binding Beads	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Capture Beads	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Index Primer Mix for ILM 1-8	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Index Primer Mix for ILM 9-16	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Index Primer Mix for ILM 17-24	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Index Primer Mix for ILM 25-32	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>End Prep Buffer</b> Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
<b>End Prep Enzyme</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
	LD50 Oral	Rat	12600 mg/kg	-
<b>Ligation Enzyme</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
	LD50 Oral	Rat	12600 mg/kg	-
<b>Hyb Buffer</b> tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/ kg	-
	LD50 Oral	Rat	50 mg/kg	-
<b>Hyb Enhancer</b> Formamide	LC50 Inhalation Dusts and mists	Rat - Male	>21 mg/l	4 hours
	LD50 Dermal	Rabbit	17 g/kg	-
	LD50 Oral	Rat	5570 mg/kg	-
<b>2X Amplification Mastermix</b>				

**Section 11. Toxicological information**

Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Soft Conversion Binding Beads</b>				
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
Guanidinium thiocyanate	LC50 Inhalation Dusts and mists	Rat - Female	3.181 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	593 mg/kg	-
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	LD50 Oral	Rat	2800 mg/kg	-

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>End Prep Enzyme</b>					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Ligation Buffer</b>					
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
<b>Ligation Enzyme</b>					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Hyb Enhancer</b>					
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
<b>Soft Conversion Reagent A</b>					
tetrahydro-2-furylmethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
<b>2X Amplification Mastermix</b>					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Library Wash Buffer</b>					
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

## Section 11. Toxicological information

<b>Soft Conversion Binding Beads</b> Ethanol	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Poly(oxy-1,2-ethanediyl), . alpha.-[ (1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant	Rabbit	-	1 %	-
<b>Library Binding Beads</b> Poly(oxy-1,2-ethanediyl), $\alpha$ - hydro- $\omega$ -hydroxy- Ethane- 1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

### Sensitisation

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>Hyb Buffer</b> tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
<b>Hyb Enhancer</b> Formamide	Category 2	oral	blood

### Aspiration hazard

Not available.

## Section 11. Toxicological information

<b>Information on likely routes of exposure</b>	Nuclease-Free Water	Not available.
	End Prep Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	End Prep Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Ligation Buffer	Not available.
	Ligation Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Adapter for ILM	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Hyb Blocker	Not available.
	Hyb Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Hyb Enhancer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Soft Conversion Reagent A	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	2X Amplification Mastermix	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	Soft Conversion Reagent B	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Soft Conversion Binding Beads	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 1-8	Not available.
	Index Primer Mix for ILM 9-16	Not available.
	Index Primer Mix for ILM 17-24	Not available.
	Index Primer Mix for ILM 25-32	Not available.

### Potential acute health effects

<b>Eye contact</b>	Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	Causes eye irritation.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	Causes eye irritation.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	Causes serious eye irritation.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
Resuspension Buffer	No known significant effects or critical hazards.	
Soft Conversion Reagent B	Causes serious eye irritation.	
Soft Conversion Binding	Causes serious eye damage.	

## Section 11. Toxicological information

	Beads	
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	Causes serious eye damage.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
<b>Inhalation</b>	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single exposure if inhaled.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Corrosive to the respiratory tract. Causes burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
<b>Skin contact</b>	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	No known significant effects or critical hazards.

## Section 11. Toxicological information

	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Causes severe burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	Causes severe burns.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
<b>Ingestion</b>	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Corrosive to the digestive tract. Causes burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.



## Section 11. Toxicological information

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

<b>Eye contact</b>	: Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	Adverse symptoms may include the following: irritation watering redness
	Ligation Buffer	No specific data.
	Ligation Enzyme	Adverse symptoms may include the following: irritation watering redness
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following: pain or irritation watering redness
	Hyb Enhancer	No specific data.
	Soft Conversion Reagent A	Adverse symptoms may include the following: pain or irritation watering redness
	2X Amplification Mastermix	No specific data.
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	Soft Conversion Reagent B	Adverse symptoms may include the following: pain or irritation watering redness
	Soft Conversion Binding Beads	Adverse symptoms may include the following:  pain watering redness
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following:  pain watering redness
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM 1-8	No specific data.
	Index Primer Mix for ILM 9-16	No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.

## Section 11. Toxicological information

### Inhalation

: Nuclease-Free Water	No specific data.
End Prep Buffer	No specific data.
End Prep Enzyme	No specific data.
Ligation Buffer	No specific data.
Ligation Enzyme	No specific data.
Adapter for ILM	No specific data.
Hyb Blocker	No specific data.
Hyb Buffer	No specific data.
Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Soft Conversion Reagent A	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
2X Amplification Mastermix	No specific data.
2X Methyl Amplification Mastermix	No specific data.
Library Wash Buffer	No specific data.
Hyb Wash Buffer 1	No specific data.
Hyb Wash Buffer 2	No specific data.
Resuspension Buffer	No specific data.
Soft Conversion Reagent B	No specific data.
Soft Conversion Binding Beads	Adverse symptoms may include the following: respiratory tract irritation coughing
5X Soft Conversion Wash Buffer	No specific data.
Soft Conversion Elution Buffer	No specific data.
Soft Conversion Repair Solution	No specific data.
Library Binding Beads	No specific data.
Capture Beads	No specific data.
Index Primer Mix for ILM 1-8	No specific data.
Index Primer Mix for ILM 9-16	No specific data.
Index Primer Mix for ILM 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.

### Skin contact

: Nuclease-Free Water	No specific data.
End Prep Buffer	No specific data.
End Prep Enzyme	No specific data.
Ligation Buffer	No specific data.
Ligation Enzyme	No specific data.
Adapter for ILM	No specific data.
Hyb Blocker	No specific data.
Hyb Buffer	Adverse symptoms may include the following: irritation redness
Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Soft Conversion Reagent A	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
2X Amplification Mastermix	No specific data.

## Section 11. Toxicological information

	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM 1-8	No specific data.
	Index Primer Mix for ILM 9-16	No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.
<b>Ingestion</b>	: Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	Soft Conversion Reagent A	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	2X Amplification Mastermix	No specific data.
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Adverse symptoms may include the following: stomach pains
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following: stomach pains
	Soft Conversion Repair	No specific data.

## Section 11. Toxicological information

Solution	
Library Binding Beads	No specific data.
Capture Beads	No specific data.
Index Primer Mix for ILM 1-8	No specific data.
Index Primer Mix for ILM 9-16	No specific data.
Index Primer Mix for ILM 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.

### 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

<b>General</b>	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	May cause damage to organs through prolonged or repeated exposure.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	No known significant effects or critical hazards.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Carcinogenicity</b>	:	Nuclease-Free Water	No known significant effects or critical hazards.
		End Prep Buffer	No known significant effects or critical hazards.
		End Prep Enzyme	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Ligation Enzyme	No known significant effects or critical hazards.
		Adapter for ILM	No known significant effects or critical hazards.
		Hyb Blocker	No known significant effects or critical hazards.
		Hyb Buffer	No known significant effects or critical hazards.
		Hyb Enhancer	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
		Soft Conversion Reagent A	No known significant effects or critical hazards.
		2X Amplification Mastermix	No known significant effects or critical hazards.
		2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
		Library Wash Buffer	No known significant effects or critical hazards.
		Hyb Wash Buffer 1	No known significant effects or critical hazards.
		Hyb Wash Buffer 2	No known significant effects or critical hazards.
		Resuspension Buffer	No known significant effects or critical hazards.
		Soft Conversion Reagent B	No known significant effects or critical hazards.
		Soft Conversion Binding Beads	No known significant effects or critical hazards.
		5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
		Soft Conversion Elution Buffer	No known significant effects or critical hazards.
		Soft Conversion Repair Solution	No known significant effects or critical hazards.
		Library Binding Beads	No known significant effects or critical hazards.
		Capture Beads	No known significant effects or critical hazards.
		Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
		Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.	
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.	
<b>Mutagenicity</b>	:	Nuclease-Free Water	No known significant effects or critical hazards.
		End Prep Buffer	No known significant effects or critical hazards.
		End Prep Enzyme	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Ligation Enzyme	No known significant effects or critical hazards.
		Adapter for ILM	No known significant effects or critical hazards.
		Hyb Blocker	No known significant effects or critical hazards.
		Hyb Buffer	No known significant effects or critical hazards.
		Hyb Enhancer	No known significant effects or critical hazards.
		Soft Conversion Reagent A	No known significant effects or critical hazards.
		2X Amplification Mastermix	No known significant effects or critical hazards.
		2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
		Library Wash Buffer	No known significant effects or critical hazards.
		Hyb Wash Buffer 1	No known significant effects or critical hazards.
		Hyb Wash Buffer 2	No known significant effects or critical hazards.
		Resuspension Buffer	No known significant effects or critical hazards.
		Soft Conversion Reagent B	No known significant effects or critical hazards.
		Soft Conversion Binding Beads	No known significant effects or critical hazards.
		5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
		Soft Conversion Elution Buffer	No known significant effects or critical hazards.
		Soft Conversion Repair Solution	No known significant effects or critical hazards.
		Library Binding Beads	No known significant effects or critical hazards.

## Section 11. Toxicological information

	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	May damage fertility or the unborn child.
	Soft Conversion Reagent A	May damage fertility or the unborn child.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	No known significant effects or critical hazards.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 1-8	No known significant effects or critical hazards.
	Index Primer Mix for ILM 9-16	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>End Prep Buffer</b> Magnesium chloride	2800	N/A	N/A	N/A	N/A
<b>End Prep Enzyme</b> Glycerol	12600	N/A	N/A	N/A	N/A
<b>Ligation Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
<b>Ligation Enzyme</b>					



## Section 11. Toxicological information

Glycerol	12600	N/A	N/A	N/A	N/A
<b>Hyb Buffer</b>					
Hyb Buffer	456.2	2737.2	N/A	N/A	N/A
tetramethylammonium chloride	50	300	N/A	N/A	N/A
<b>Hyb Enhancer</b>					
Formamide	5570	17000	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
<b>2X Amplification Mastermix</b>					
Glycerol	12600	N/A	N/A	N/A	N/A
<b>Library Wash Buffer</b>					
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
<b>Soft Conversion Binding Beads</b>					
Soft Conversion Binding Beads	2299.0	5782.2	N/A	N/A	16.7
Ethanol	7000	N/A	N/A	124.7	N/A
Guanidinium thiocyanate	593	1100	N/A	N/A	3.181
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	500	N/A	N/A	N/A	N/A
<b>Library Binding Beads</b>					
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A

**Other information**

End Prep Buffer

Adapter for ILM

Hyb Enhancer

Adverse symptoms may include the following: May cause skin sensitisation.

Adverse symptoms may include the following: May cause skin sensitisation.

Adverse symptoms may include the following: May cause eye irritation. May cause skin irritation.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>End Prep Buffer</b>			
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute EC50 180000 $\mu$ g/l Fresh water	Crustaceans - <i>Eudiaptomus padanus</i> ssp. <i>padanus</i> - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - <i>Lemna aequinoctialis</i>	96 hours
	Acute LC50 32000 $\mu$ g/l Fresh water	Daphnia - <i>Daphnia hyalina</i> - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - <i>Cyprinus carpio</i>	35 days
<b>End Prep Enzyme</b>			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>Ligation Buffer</b>			
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

**Section 12. Ecological information**

1,2-diol, ethoxylated	Acute LC50 >1000000 µg/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours
<b>Ligation Enzyme</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>Hyb Buffer</b> tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
<b>Hyb Enhancer</b> Formamide	Acute EC50 >500 mg/l Fresh water Acute EC50 >500 mg/l Fresh water Acute LC50 6569 mg/l Fresh water Acute NOEC 4640 mg/l Fresh water Acute NOEC 4640 mg/l Fresh water Acute EC50 >100 mg/l Fresh water	Algae Daphnia Fish Algae Fish Daphnia - <i>Daphnia magna</i>	72 hours 48 hours 96 hours 72 hours 96 hours 48 hours
Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Acute LC50 >1000000 µg/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours
<b>Soft Conversion Reagent A</b> tetrahydro-2-furylmethanol	Acute EC50 >98.9 mg/l Acute EC50 >91.7 mg/l Acute LC50 >101 mg/l	Algae Daphnia - <i>Daphnia magna</i> Fish	72 hours 48 hours 96 hours
<b>2X Amplification Mastermix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>Library Wash Buffer</b> Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Acute EC50 >100 mg/l Fresh water  Acute LC50 >1000000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>  Fish - <i>Salmo salar</i> - Parr	48 hours  96 hours
<b>Soft Conversion Binding Beads</b> Ethanol	Acute EC50 3306 mg/l Marine water Acute EC50 1074 mg/l Fresh water  Acute EC50 2 mg/l Fresh water Acute LC50 11000000 µg/l Marine water Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 100 ul/L Fresh water	Algae - <i>Ulva pertusa</i> Crustaceans - <i>Cypris subglobosa</i> Daphnia - <i>Daphnia magna</i> Fish - <i>Alburnus alburnus</i>  Algae - <i>Ulva pertusa</i> Daphnia - <i>Daphnia magna</i> - Neonate	96 hours 48 hours 48 hours 96 hours  96 hours 21 days
Poly(oxy-1,2-ethanediyl), . alpha.-[ (1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Acute EC50 210 µg/l Fresh water  Acute LC50 10800 µg/l Marine water  Acute LC50 2.518 mg/l Fresh water Acute LC50 7200 µg/l Fresh water	Algae - <i>Selenastrum sp.</i>  Crustaceans - <i>Pandalus montagui</i> - Adult Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i>	96 hours  48 hours 48 hours 96 hours
<b>Library Binding Beads</b> Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Acute EC50 >100 mg/l Fresh water  Acute LC50 >1000000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>  Fish - <i>Salmo salar</i> - Parr	48 hours  96 hours

**Persistence and degradability**

## Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
<b>End Prep Enzyme</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>Ligation Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ - hydro- $\omega$ -hydroxy- Ethane- 1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
<b>Ligation Enzyme</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>Hyb Enhancer</b> Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
Poly(oxy-1,2-ethanediyl), $\alpha$ - hydro- $\omega$ -hydroxy- Ethane- 1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
<b>Soft Conversion Reagent A</b> tetrahydro-2-furylmethanol	-	92 % - Readily - 28 days	-	-
<b>2X Amplification Mastermix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>Library Wash Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ - hydro- $\omega$ -hydroxy- Ethane- 1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
<b>Soft Conversion Binding Beads</b> Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28 days	-	-
<b>Library Binding Beads</b> Poly(oxy-1,2-ethanediyl), $\alpha$ - hydro- $\omega$ -hydroxy- Ethane- 1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-

## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Nuclease-Free Water</b> water	-	-	Readily
<b>Ligation Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	-	Readily
<b>Hyb Buffer</b> tetramethylammonium chloride	-	-	Readily
<b>Hyb Enhancer</b> Formamide	-	-	Readily
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	-	Readily
<b>Soft Conversion Reagent A</b> tetrahydro-2-furylmethanol	-	-	Readily
<b>Library Wash Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	-	Readily
<b>Soft Conversion Binding Beads</b> Ethanol	-	-	Readily
Guanidinium thiocyanate	-	-	Inherent
<b>Library Binding Beads</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Nuclease-Free Water</b> water	-1.38	-	Low
<b>End Prep Enzyme</b> Glycerol	-1.76	-	Low
<b>Ligation Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	3.2	Low
<b>Ligation Enzyme</b> Glycerol	-1.76	-	Low
<b>Hyb Buffer</b> tetramethylammonium chloride	<-1.6	-	Low
<b>Hyb Enhancer</b> Formamide	-0.82	-	Low
Poly(oxy-1,2-ethanediyl), $\alpha$ -	-	3.2	Low

## Section 12. Ecological information

hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated			
<b>Soft Conversion Reagent A</b> tetrahydro-2-furylmethanol	0.722	-	Low
<b>2X Amplification Mastermix</b> Glycerol	-1.76	-	Low
<b>Library Wash Buffer</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	3.2	Low
<b>Soft Conversion Binding Beads</b> Ethanol	-0.35	0.5	Low
Guanidinium thiocyanate	<-1.7	-	Low
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	2.7	78.67	Low
<b>Library Binding Beads</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	3.2	Low

### Mobility in soil

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

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




## Section 13. Disposal considerations

**Disposal methods** : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	ADG	IMDG	IATA
<b>UN number</b>	UN3316	UN3316	UN3316
<b>UN proper shipping name</b>	CHEMICAL KIT	CHEMICAL KIT	Chemical kit

## Section 14. Transport information

Transport hazard class(es)	9 	9 	9 
Packing group	II	II	II
Environmental hazards	No.	No.	No.

### Additional information

Remarks: Excepted Quantity

**ADG** : **Hazchem code** 2Z  
**Special provisions** 251, 340

**IMDG** : **Emergency schedules** F-A, \_S-P\_  
**Special provisions** 251, 340

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.  
**Special provisions** A44, A163

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

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

## Section 15. Regulatory information

### Standard for the Uniform Scheduling of Medicines and Poisons

6, 5

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.  
**New Zealand** : Not determined.  
**United States** : Not determined.



## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 08/04/2024

**Date of previous issue** : 26/02/2024

**Version** : 1.1

### Key to abbreviations

ADG = Australian Dangerous Goods  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
<b>End Prep Buffer</b> LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method
<b>End Prep Enzyme</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
<b>Ligation Enzyme</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
<b>Hyb Buffer</b> ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method Calculation method Calculation method
<b>Hyb Enhancer</b> CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method Calculation method Calculation method
<b>Soft Conversion Reagent A</b> FLAMMABLE LIQUIDS - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A REPRODUCTIVE TOXICITY - Category 1	On basis of test data Calculation method Calculation method
<b>Soft Conversion Reagent B</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method
<b>Soft Conversion Binding Beads</b> FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1C SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	On basis of test data Calculation method Calculation method Calculation method Calculation method

## Section 16. Any other relevant information

<p>2</p> <p><b>Soft Conversion Elution Buffer</b>                  SKIN CORROSION/IRRITATION - Category 1                  SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1</p>	<p>On basis of test data                  On basis of test data</p>
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✔ Indicates information that has changed from previously issued version.

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