

# SAFETY DATA SHEET

Avida Methyl Reagent Kit with 17-32 Index Primer Pairs for ILM, 16 Reactions, Part Number G9419B

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

### 1.1 Product identifier

<b>Product name</b>	: Avida Methyl Reagent Kit with 17-32 Index Primer Pairs for ILM, 16 Reactions, Part Number G9419B	
<b>CAS number</b>	: Nuclease-Free Water	7732-18-5
	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 Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	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 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
<b>Part no. (chemical kit)</b>	: G9419B	
<b>Part no.</b>	: <u>Avida Methyl Reagent Box 2, 16 Reactions/</u>	<u>5282-0147/5282-0149</u>
	<u>Avida Methyl and Duo Reagent Box 3, 16 Reactions</u>	
	Nuclease-Free Water	5271-0107
	<u>Avida Methyl Reagent Box 1, 16 Reactions</u>	<u>5282-0145</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 Methyl Amplification Mastermix	5271-0111
	<u>Avida Methyl Reagent Box 2, 16 Reactions</u>	<u>5282-0147</u>
	Library Wash Buffer	5271-0103
	Hyb Wash Buffer 1	5271-0104
	Hyb Wash Buffer 2	5271-0105
	<u>Avida Methyl and Duo Reagent Box 3, 16 Reactions</u>	<u>5282-0149</u>

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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 Beads Box, 16 Reactions</u>	<u>5282-0143</u>
Library Binding Beads	5271-0108
Capture Beads	5271-0109
<u>Avida Index Primer Pairs 17-32 for ILM</u>	<u>5280-0053</u>
Index Primer Mix for ILM 17-24	5274-0077
Index Primer Mix for ILM 25-32	5274-0078

**1.2 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)
	2X Methyl Amplification Mastermix 0.440 ml (16 reactions)
	Library Wash Buffer 6.336 ml (16 reactions)
	Hyb Wash Buffer 1 5.280 ml (16 reactions)
	Hyb Wash Buffer 2 2.64 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 0.141 ml (16 reactions)
	Index Primer Mix for ILM 17-24 8 x 0.005 ml
	Index Primer Mix for ILM 25-32 8 x 0.005 ml
<b>Uses advised against</b>	: Not for use in diagnostic procedures.

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

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

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

**1.4 Emergency telephone number**

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	:	Nuclease-Free Water	Mono-constituent 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 Methyl Amplification Mastermix	Mixture
		Library Wash Buffer	Mixture
		Hyb Wash Buffer 1	Mixture
		Hyb Wash Buffer 2	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 17-24	Mixture
		Index Primer Mix for ILM 25-32	Mixture

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

#### End Prep Buffer

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

#### 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 1B  
 H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE Category 2

#### Soft Conversion Reagent A

H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2  
 H360FD REPRODUCTIVE TOXICITY Category 1B

#### Soft Conversion Reagent B

H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

#### Soft Conversion Binding Beads

H226 FLAMMABLE LIQUIDS Category 3  
 H314 SKIN CORROSION/IRRITATION Category 1

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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
Nuclease-Free Water	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
End Prep Buffer	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
End Prep Enzyme	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Ligation Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Ligation Enzyme	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Adapter for ILM	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Hyb Blocker	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Hyb Buffer	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Hyb Enhancer	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Soft Conversion Reagent A	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
2X Methyl Amplification Mastermix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Library Wash Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Hyb Wash Buffer 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Hyb Wash Buffer 2	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Soft Conversion Reagent B	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Soft Conversion Binding Beads	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
5X Soft Conversion Wash Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Soft Conversion Elution Buffer	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Soft Conversion Repair Solution	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Library Binding Beads	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Capture Beads	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Index Primer Mix for ILM 17-24	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Index Primer Mix for ILM 25-32	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.	

<b>Ingredients of unknown toxicity</b>	: End Prep Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	End Prep Enzyme	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Ligation Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Ligation Enzyme	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Hyb Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of

**SECTION 2: Hazards identification**

	unknown acute inhalation toxicity: 10 - 30%
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
Hyb Enhancer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
Soft Conversion Reagent A	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60%
2X Methyl Amplification Mastermix	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
Library Wash Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
Hyb Wash Buffer 1	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
Soft Conversion Reagent B	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60%
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: > 60%
Soft Conversion Binding Beads	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
Soft Conversion Repair Solution	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
Library Binding Beads	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
<b>Ingredients of unknown ecotoxicity</b>	
: Hyb Buffer	Contains 3.4% of components with unknown hazards to the aquatic environment
2X Methyl Amplification Mastermix	Contains 10% of components with unknown hazards to the aquatic environment
Soft Conversion Reagent B	Contains 70% of components with unknown hazards to the aquatic environment

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

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

**2.2 Label elements**

**SECTION 2: Hazards identification**

**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	No signal word.
Ligation Buffer	No signal word.
Ligation Enzyme	No signal word.
Adapter for ILM	No signal word.
Hyb Blocker	No signal word.
Hyb Buffer	Danger
Hyb Enhancer	Danger
Soft Conversion Reagent A	Danger
2X Methyl Amplification Mastermix	No signal word.
Library Wash Buffer	No signal word.
Hyb Wash Buffer 1	No signal word.
Hyb Wash Buffer 2	No signal word.
Soft Conversion Reagent B	Warning
Soft Conversion Binding Beads	Danger
5X Soft Conversion Wash Buffer	No signal word.
Soft Conversion Elution Buffer	Danger
Soft Conversion Repair Solution	No signal word.
Library Binding Beads	No signal word.
Capture Beads	No signal word.
Index Primer Mix for ILM 17-24	No signal word.
Index Primer Mix for ILM 25-32	No signal word.

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<b>Hazard statements</b>	:	Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H302 - Harmful if swallowed. H315 - Causes skin irritation. H370 - Causes damage to organs. H412 - Harmful to aquatic life with long lasting effects. H351 - Suspected of causing cancer. H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H319 - Causes serious eye irritation.
		Hyb Enhancer	H360FD - May damage fertility. May damage the unborn child.
		Soft Conversion Reagent A	H360FD - May damage fertility. May damage the unborn child.
		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.
		Soft Conversion Reagent B	H319 - Causes serious eye irritation.
		Soft Conversion Binding Beads	H226 - Flammable liquid and vapour.  H314 - Causes severe skin burns and eye damage. H410 - Very toxic to aquatic life with long lasting effects.
		5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
		Soft Conversion Elution Buffer	H314 - Causes severe skin burns and 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 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

<b>Prevention</b>	:	Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	Not applicable. P273 - Avoid release to the environment. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. 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.
		2X Methyl Amplification	P280 - Wear protective gloves, protective clothing and eye or face protection. Not applicable.



**SECTION 2: Hazards identification**

Mastermix	
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	Not applicable.
Soft Conversion	P280 - Wear eye or face protection.
Reagent B	
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 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.
<b>Response</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	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. P337 + P313 - If eye irritation persists: Get medical advice or attention.
2X Methyl Amplification Mastermix	Not applicable.
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	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	Not applicable.
Soft Conversion Elution Buffer	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.



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		Immediately call a POISON CENTER or doctor.
	Soft Conversion Repair Solution	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
<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 Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	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 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 Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	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.

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	5X Soft Conversion Wash Buffer	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 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
<b>Hazardous ingredients</b>	: Hyb Buffer	tetramethylammonium chloride
	Hyb Enhancer	formamide
	Soft Conversion Reagent A	tetrahydro-2-furyl-methanol
	Soft Conversion Binding Beads	salts of thiocyanic acid and Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-
<b>Supplemental label elements</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 Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	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 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</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	Restricted to professional users.
	Soft Conversion Reagent A	Restricted to professional users.
	2X Methyl Amplification	Not applicable.

**SECTION 2: Hazards identification**

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

Special packaging requirements

**Tactile warning of danger**

:	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	Not applicable.
	Reagent A	
	2X Methyl Amplification	Not applicable.
	Mastermix	
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion	Not applicable.
	Reagent B	
	Soft Conversion Binding	Not applicable.
	Beads	
	5X Soft Conversion	Not applicable.
	Wash Buffer	
	Soft Conversion Elution	Not applicable.
	Buffer	
	Soft Conversion Repair	Not applicable.
	Solution	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM	Not applicable.
	17-24	
	Index Primer Mix for ILM	Not applicable.
	25-32	

**2.3 Other hazards**

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

	PBT	P	B	T	vPvB	vP	vB
<b>Nuclease-Free Water</b>							
Not applicable (Inorganic)		N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

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End Prep Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
End Prep Enzyme	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Ligation Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Ligation Enzyme	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Adapter for ILM	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Hyb Blocker	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Hyb Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Hyb Enhancer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Soft Conversion Reagent A	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
2X Methyl Amplification Mastermix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Library Wash Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Hyb Wash Buffer 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Hyb Wash Buffer 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Soft Conversion Reagent B	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Soft Conversion Binding Beads	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
5X Soft Conversion Wash Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Soft Conversion Elution Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Soft Conversion Repair Solution	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Library Binding Beads	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Capture Beads	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Index Primer Mix for ILM 17-24	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Index Primer Mix for ILM 25-32	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
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	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.
Soft Conversion Reagent B	None known.
Soft Conversion Binding	Causes digestive tract burns. Contains one or more

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

**SECTION 2: Hazards identification**

Beads	substances considered to have endocrine-disrupting properties.
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 17-24	None known.
Index Primer Mix for ILM 25-32	None known.

Substances identified as having endocrine disruptor properties

Ingredient name	Impact
<b>Soft Conversion Binding Beads</b> Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Environment

**SECTION 3: Composition/information on ingredients**

<b>3.1 Substances</b>	:	Nuclease-Free Water	Mono-constituent 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 Methyl Amplification Mastermix	Mixture
		Library Wash Buffer	Mixture
		Hyb Wash Buffer 1	Mixture
		Hyb Wash Buffer 2	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 17-24	Mixture
		Index Primer Mix for ILM 25-32	Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
<b>Nuclease-Free Water</b> water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	-	[1]
<b>End Prep Buffer</b> magnesium chloride	EC: 232-094-6 CAS: 7786-30-3	<2.5	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
<b>End Prep Enzyme</b>					

**SECTION 3: Composition/information on ingredients**

glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
<b>Ligation Enzyme</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
<b>Hyb Buffer</b>					
tetramethylammonium chloride	EC: 200-880-8 CAS: 75-57-0	≥10 - <15	Acute Tox. 2, H300 Acute Tox. 3, H311 Skin Irrit. 2, H315 STOT SE 1, H370 (central nervous system (CNS)) (oral) Aquatic Chronic 2, H411	ATE [Oral] = 50 mg/kg ATE [Dermal] = 300 mg/kg	[1]
Dextran sulfate sodium	CAS: 9011-18-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
Poly(oxy-1,2-ethanediyl), . alpha.-[ (1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	CAS: 9036-19-5	<0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 10 M [Chronic] = 1	[1] [2]
<b>Hyb Enhancer</b>					
formamide	EC: 200-842-0 CAS: 75-12-7	≥90	Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 (blood) (oral)	-	[1] [2]
<b>Soft Conversion Reagent A</b>					
tetrahydro-2-furyl-methanol	EC: 202-625-6 CAS: 97-99-4 Index: 603-061-00-7	≥90	Eye Irrit. 2, H319 Repr. 1B, H360FD	-	[1]
<b>Soft Conversion Reagent B</b>					
ammonium hydrogensulphite	EC: 233-469-7 CAS: 10192-30-0	≥50 - ≤75	Eye Irrit. 2, H319 EUH031	-	[1]
<b>Soft Conversion Binding Beads</b>					
ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥50 - ≤75	Flam. Liq. 2, H225 Eye Irrit. 2, H319	Eye Irrit. 2, H319: C ≥ 50%	[1] [2]

**SECTION 3: Composition/information on ingredients**

salts of thiocyanic acid	EC: 209-812-1 CAS: 593-84-0 Index: 615-004-00-3	≥10 - ≤21	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 EUH032 EUH071	ATE [Oral] = 593 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (dusts and mists)] = 3.181 mg/l	[1]
Poly(oxy-1,2-ethanediyl), . alpha.-[ (1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	CAS: 9036-19-5	≤6.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 <b>See Section 16 for the full text of the H statements declared above.</b>	ATE [Oral] = 500 mg/kg M [Acute] = 10 M [Chronic] = 1	[1] [3]

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

<b>Type</b>	
Nuclease-Free Water	[1] Constituent
End Prep Buffer	[1] Substance classified with a health or environmental hazard
End Prep Enzyme	[1] Substance with a workplace exposure limit
Ligation Enzyme	[1] Substance with a workplace exposure limit
Hyb Buffer	[1] Substance classified with a health or environmental hazard [2] Substance of equivalent concern
Hyb Enhancer	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit
Soft Conversion Reagent A	[1] Substance classified with a health or environmental hazard
Soft Conversion Reagent B	[1] Substance classified with a health or environmental hazard
Soft Conversion Binding Beads	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit [3] Substance of equivalent concern

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Eye contact</b>	: 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. Get medical attention if irritation occurs.
	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. Get medical attention if irritation occurs.
	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



**SECTION 4: First aid measures**

	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 Methyl Amplification Mastermix	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.
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 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.

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<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. Get medical attention if symptoms occur.
	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. Get medical attention if symptoms occur.
	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, 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 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

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	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.
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 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	Remove victim to fresh air and keep at rest in a position

**SECTION 4: First aid measures**

**Skin contact**

17-24	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.
: 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 medical attention if symptoms occur.
Ligation Buffer	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.
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 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.
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 be treated promptly by a

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	physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
5X Soft Conversion Wash Buffer	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.
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 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. 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.
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.
Ligation Enzyme	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.
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



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	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, tie, belt or waistband.
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.
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.

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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 vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Soft Conversion Elution Buffer	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 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.
<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.
Ligation Buffer	No action shall be taken involving any personal risk or without suitable training.



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Ligation Enzyme	No action shall be taken involving any personal risk or without suitable training.
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 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.
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 resuscitation.
Soft Conversion Binding Beads	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 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.

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

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<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	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	Causes serious eye irritation.
		Reagent A	
		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.
		Soft Conversion	Causes serious eye irritation.
		Reagent B	
		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 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	No known significant effects or critical hazards.
		Reagent A	
		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.
		Soft Conversion	No known significant effects or critical hazards.
		Reagent B	
		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 17-24	No known significant effects or critical hazards.
		Index Primer Mix for ILM	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 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.
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 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 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.
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	No known significant effects or critical hazards.



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**Skin contact**

Soft Conversion Reagent A	Adverse symptoms may include the following:  reduced foetal weight increase in foetal deaths skeletal malformations
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.
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 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.
: 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 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.
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

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		redness blistering may occur 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 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 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.
	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 Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.

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

<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



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Adapter for ILM	immediately if large quantities have been ingested or inhaled. 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 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.
Soft Conversion Reagent B	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 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 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.
Soft Conversion Reagent B	No specific treatment.
Soft Conversion Binding Beads	No specific treatment.
5X Soft Conversion Wash Buffer	No specific treatment.



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Soft Conversion Elution Buffer	No specific treatment.
Soft Conversion Repair Solution	No specific treatment.
Library Binding Beads	No specific treatment.
Capture Beads	No specific treatment.
Index Primer Mix for ILM 17-24	No specific treatment.
Index Primer Mix for ILM 25-32	No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

: 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 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 surrounding fire.
Hyb Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
Hyb Wash Buffer 2	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 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.

**Unsuitable extinguishing media**

: 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	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.
Soft Conversion Reagent B	None known.

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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 17-24	None known.
Index Primer Mix for ILM 25-32	None known.

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

: 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	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.
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	In a fire or if heated, a pressure increase will occur and the

**SECTION 5: Firefighting measures**

**Hazardous combustion products**

Buffer	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.
Capture Beads	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	No specific data.
Hyb Blocker	No specific data.
Hyb Buffer	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 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 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.
Soft Conversion Reagent B	Decomposition products may include the following materials: nitrogen oxides

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Soft Conversion Binding Beads	sulfur oxides 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 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.

**5.3 Advice for firefighters**

**Special precautions 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 without suitable training.
Adapter for ILM	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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.
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

**SECTION 5: Firefighting measures**

**Special protective equipment for fire-fighters**

Hyb Wash Buffer 1	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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 Wash Buffer 2	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
Soft Conversion Reagent B	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
Soft Conversion Binding Beads	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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. 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	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
Soft Conversion Elution Buffer	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
Soft Conversion Repair Solution	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
Library Binding Beads	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
Capture Beads	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
Index Primer Mix for ILM 17-24	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
Index Primer Mix for ILM 25-32	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
: 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for



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

**SECTION 5: Firefighting measures**

Beads	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	: 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.
	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.



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	Do not touch or walk through spilt material. 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. 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
Soft Conversion	No action shall be taken involving any personal risk or

**SECTION 6: Accidental release measures**

Reagent B	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 respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Soft Conversion Repair Solution	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 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.
: 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".

**For emergency responders**

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

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Library 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".
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 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".

**6.2 Environmental precautions**

: 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 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 Methyl Amplification Mastermix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

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	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).
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 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 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 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).

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

<b>Methods for cleaning up</b>	: 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



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End Prep Enzyme	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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 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. 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.
Hyb Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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



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	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. May be harmful to the environment if released. Dispose of spillages under controlled conditions.
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. 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. Move containers from spill area. 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 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.

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: 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

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	Section 8).
Ligation Buffer	Put on appropriate personal protective equipment (see Section 8).
Ligation Enzyme	Put on appropriate personal protective equipment (see Section 8).
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 hazardous. Do not reuse container.
Hyb Enhancer	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. 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.
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).
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

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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. 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 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 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.

Adapter for ILM

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

**SECTION 7: Handling and storage**

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

**SECTION 7: Handling and storage**

	Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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 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.

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

<b>Storage</b>	: Nuclease-Free Water	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 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



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	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 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.
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 and sealed until ready for use.



**SECTION 7: Handling and storage**

Soft Conversion  
Reagent A

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. 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.

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.

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.

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

**SECTION 7: Handling and storage**

Soft Conversion Binding Beads	<p>before handling or use.</p> <p>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.</p>
5X Soft Conversion Wash Buffer	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Soft Conversion Elution Buffer	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Soft Conversion Repair Solution	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Library Binding Beads	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Capture Beads	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Index Primer Mix for ILM	<p>Store in accordance with local regulations. Store in original</p>

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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  
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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.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
<b>Hyb Buffer</b> H3	50 tonne	200 tonne
<b>Soft Conversion Binding Beads</b> P5c E1	5000 tonne 100 tonne	50000 tonne 200 tonne

**7.3 Specific end use(s)**

**Recommendations**

- : Nuclease-Free Water Industrial applications, Professional applications.
- End Prep Buffer Industrial applications, Professional applications.
- End Prep Enzyme Industrial applications, Professional applications.
- Ligation Buffer Industrial applications, Professional applications.
- Ligation Enzyme Industrial applications, Professional applications.
- Adapter for ILM Industrial applications, Professional applications.
- Hyb Blocker Industrial applications, Professional applications.
- Hyb Buffer Industrial applications, Professional applications.
- Hyb Enhancer Industrial applications, Professional applications.
- Soft Conversion Industrial applications, Professional applications.
- Reagent A
- 2X Methyl Amplification Industrial applications, Professional applications.
- Mastermix
- Library Wash Buffer Industrial applications, Professional applications.
- Hyb Wash Buffer 1 Industrial applications, Professional applications.
- Hyb Wash Buffer 2 Industrial applications, Professional applications.
- Soft Conversion Industrial applications, Professional applications.
- Reagent B
- Soft Conversion Binding Beads Industrial applications, Professional applications.
- 5X Soft Conversion Wash Buffer Industrial applications, Professional applications.
- Soft Conversion Elution Buffer Industrial applications, Professional applications.
- Soft Conversion Repair Solution Industrial applications, Professional applications.
- Library Binding Beads Industrial applications, Professional applications.
- Capture Beads Industrial applications, Professional applications.
- Index Primer Mix for ILM Industrial applications, Professional applications.

**SECTION 7: Handling and storage**

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Index Primer Mix for ILM Industrial applications, Professional applications.  
25-32

**Industrial sector specific solutions**

: 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 Not available.  
Reagent A  
2X Methyl Amplification Not available.  
Mastermix  
Library Wash Buffer Not available.  
Hyb Wash Buffer 1 Not available.  
Hyb Wash Buffer 2 Not available.  
Soft Conversion Not available.  
Reagent B  
Soft Conversion Binding Beads Not available.  
5X Soft Conversion Not available.  
Wash Buffer  
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 Not available.  
17-24  
Index Primer Mix for ILM Not available.  
25-32

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

**8.1 Control parameters**

Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>End Prep Enzyme</b> Glycerol	<b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist
<b>Ligation Enzyme</b> Glycerol	<b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist
<b>Hyb Enhancer</b> Formamide	<b>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV: 10 ppm 8 hours. OELV: 18 mg/m <sup>3</sup> 8 hours.
<b>Soft Conversion Binding Beads</b> ethanol	<b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV: 1000 ppm 15 minutes.

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

**Biological exposure indices**

No exposure indices known.

**Recommended monitoring procedures**

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

**DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
<b>End Prep Buffer</b> Magnesium chloride	DNEL	Long term Oral	7 mg/kg bw/day	General population	Systemic
<b>Hyb Buffer</b> tetramethylammonium chloride	DNEL	Long term Oral	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m <sup>3</sup>	Workers	Systemic
<b>Hyb Enhancer</b> Formamide	DNEL	Long term Dermal	0.952 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	6.6 mg/m <sup>3</sup>	Workers	Systemic
<b>Soft Conversion Reagent A</b> tetrahydro-2-furyl-methanol	DNEL	Long term Oral	0.175 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.25 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.4 mg/m <sup>3</sup>	Workers	Systemic
<b>Soft Conversion Binding Beads</b> ethanol	DNEL	Long term Inhalation	380 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term	1900 mg/	Workers	Local

## SECTION 8: Exposure controls/personal protection

salts of thiocyanic acid	DNEL	Inhalation Long term Oral	m <sup>3</sup> 0.155 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.155 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.27 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.31 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.092 mg/ m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	3.28 mg/m <sup>3</sup>	Workers	Systemic

### PNECs

No PNECs available

### 8.2 Exposure controls

**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.

### Individual protection measures

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

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

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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.

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



**SECTION 9: Physical and chemical properties**

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

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

<b>Physical state</b>	:	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 Methyl Amplification Mastermix	Liquid. [Clear.]
		Library Wash Buffer	Liquid.
		Hyb Wash Buffer 1	Liquid.
		Hyb Wash Buffer 2	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 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 Methyl Amplification Mastermix	Not available.
		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	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.

**SECTION 9: Physical and chemical properties**

	Library Binding Beads	Not available.
	Capture Beads	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 Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	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 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 Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	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	Not available.

**SECTION 9: Physical and chemical properties**

	Solution	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 17-24	Not available.
	Index Primer Mix for ILM 25-32	Not available.
<b>Melting point/freezing point</b>	: Nuclease-Free Water	0°C
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	0°C
	Hyb Blocker	0°C
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	<-120°C
	Reagent A	
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	0°C
	Hyb Wash Buffer 2	0°C
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	0°C
	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 17-24	0°C
	Index Primer Mix for ILM 25-32	0°C
<b>Initial boiling point and boiling range</b>	: Nuclease-Free Water	100°C
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	100°C
	Hyb Blocker	100°C
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	177.7°C
	Reagent A	
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	100°C
	Hyb Wash Buffer 2	100°C
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	100°C
	Soft Conversion Elution Buffer	Not available.

**SECTION 9: Physical and chemical properties**

	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM 17-24	100°C
	Index Primer Mix for ILM 25-32	100°C
<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 Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	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 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
<b>Upper/lower flammability or explosive limits</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 Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution	Not available.

**SECTION 9: Physical and chemical properties**

**Flash point**

Buffer	
Soft Conversion Repair Solution	Not available.
Library Binding Beads	Not available.
Capture Beads	Not available.
Index Primer Mix for ILM 17-24	Not available.
Index Primer Mix for ILM 25-32	Not available.
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
2X Methyl Amplification Mastermix	Not available.
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Soft Conversion Reagent B	Not available.
Soft Conversion Binding Beads	Closed cup: 37.8 to 61°C
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 17-24	Not available.
Index Primer Mix for ILM 25-32	Not available.

Ingredient name	Closed cup		Open cup	
	°C	Method	°C	Method
<b>End Prep Enzyme</b>				
glycerol	-	-	177	-
<b>Ligation Buffer</b>				
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
<b>Ligation Enzyme</b>				
glycerol	-	-	177	-
<b>Hyb Enhancer</b>				
formamide	150	-	152	DIN EN ISO 2592

**SECTION 9: Physical and chemical properties**

Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
<b>Library Wash Buffer</b>				
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
<b>Library Binding Beads</b>				
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-

**Auto-ignition temperature**

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

Ingredient name	°C	Method
<b>End Prep Enzyme</b>		
glycerol	370	-
<b>Ligation Buffer</b>		
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	-
<b>Ligation Enzyme</b>		
glycerol	370	-
<b>Hyb Enhancer</b>		
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	-
formamide	>500	ASTM D 2155-66
<b>Soft Conversion Reagent A</b>		
tetrahydro-2-furyl-methanol	282	-
<b>Library Wash Buffer</b>		
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	-
<b>Soft Conversion Binding Beads</b>		
ethanol	455	DIN 51794
<b>Library Binding Beads</b>		
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	-



**SECTION 9: Physical and chemical properties**

<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.
		Hyb Buffer	Not available.
		Hyb Enhancer	Not available.
		Soft Conversion Reagent A	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.
		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 17-24	Not available.
		Index Primer Mix for ILM 25-32	Not available.
<b>pH</b>	:	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 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
		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 17-24	8
		Index Primer Mix for ILM 25-32	8

**SECTION 9: Physical and chemical properties**

25-32

**Viscosity**

- : 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 Not available.
- Reagent A
- 2X Methyl Amplification Not available.
- Mastermix
- Library Wash Buffer Not available.
- Hyb Wash Buffer 1 Not available.
- Hyb Wash Buffer 2 Not available.
- Soft Conversion Not available.
- Reagent B
- Soft Conversion Binding Not available.
- Beads
- 5X Soft Conversion Not available.
- Wash Buffer
- Soft Conversion Elution Not available.
- Buffer
- Soft Conversion Repair Not available.
- Solution
- Library Binding Beads Not available.
- Capture Beads Not available.
- Index Primer Mix for ILM Not available.
- 17-24
- Index Primer Mix for ILM Not available.
- 25-32

**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

**SECTION 9: Physical and chemical properties**

<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> 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 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 Methyl Amplification Mastermix	Not applicable.
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	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 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.

**Vapour pressure**

Nuclease-Free Water	2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C]
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Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method

**SECTION 9: Physical and chemical properties**

<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	-	
<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	0.0000003	0.00000004	-	-	-	-	
<b>Soft Conversion Reagent A</b>							
tetrahydro-2-furyl-methanol	1.4	0.19	-	-	-	-	
<b>2X Methyl Amplification Mastermix</b>							
water	17.5	2.3	-	92.258	12.3	-	

**SECTION 9: Physical and chemical properties**

<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	0.0000003	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	-	
<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	-	-	-	-	

**SECTION 9: Physical and chemical properties**

<b>Capture Beads</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>							
water	17.5	2.3	-	92.258	12.3	-	

**Evaporation rate**

- : 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 Not available.
- Reagent A
- 2X Methyl Amplification Mastermix Not available.
- Library Wash Buffer Not available.
- Hyb Wash Buffer 1 Not available.
- Hyb Wash Buffer 2 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 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 Methyl Amplification Mastermix Not available.
- Library Wash Buffer Not available.
- Hyb Wash Buffer 1 Not available.



**SECTION 9: Physical and chemical properties**

	Hyb Wash Buffer 2	Not available.
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	Beads	
	5X Soft Conversion	Not available.
	Wash Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	Not available.
	17-24	
	Index Primer Mix for ILM	Not available.
	25-32	
<b>Vapour density</b>	: 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	Not available.
	Reagent A	
	2X Methyl Amplification	Not available.
	Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	Beads	
	5X Soft Conversion	Not available.
	Wash Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	Not available.
	17-24	
	Index Primer Mix for ILM	Not available.
	25-32	
<b>Explosive properties</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	Not available.
	Reagent A	
	2X Methyl Amplification	Not available.
	Mastermix	
	Library Wash Buffer	Not available.

**SECTION 9: Physical and chemical properties**

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

**Oxidising properties**

: 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	Not available.
Reagent A	
2X Methyl Amplification	Not available.
Mastermix	
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Soft Conversion	Not available.
Reagent B	
Soft Conversion Binding	Not available.
Beads	
5X Soft Conversion	Not available.
Wash Buffer	
Soft Conversion Elution	Not available.
Buffer	
Soft Conversion Repair	Not available.
Solution	
Library Binding Beads	Not available.
Capture Beads	Not available.
Index Primer Mix for ILM	Not available.
17-24	
Index Primer Mix for ILM	Not available.
25-32	

**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	Not applicable.
Reagent A	
2X Methyl Amplification	Not applicable.

**SECTION 9: Physical and chemical properties**

Mastermix	
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	Not applicable.
Soft Conversion	Not applicable.
Reagent B	
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 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	<b>:</b> 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.
	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.
	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.

**SECTION 10: Stability and reactivity**

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 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.

**10.2 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 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.
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.
Index Primer Mix for ILM 17-24	The product is stable.
Index Primer Mix for ILM 25-32	The product is stable.

**10.3 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 Methyl Amplification	Under normal conditions of storage and use, hazardous reactions will not occur.

**SECTION 10: Stability and reactivity**

Mastermix	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.
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 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.

<b>10.4 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	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.
		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 17-24	No specific data.
		Index Primer Mix for ILM 25-32	No specific data.





## SECTION 10: Stability and reactivity

Reagent B	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 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

### 11.1 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>Hyb Buffer</b> tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	-	
	LD50 Oral	Rat	50 mg/kg	-	
	Dextran sulfate sodium	Rat	20600 mg/kg	-	
	Poly(oxy-1,2-ethanediyl), . alpha.-[ (1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Rat	2800 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>Soft Conversion Binding Beads</b> ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours	
	LD50 Oral	Rat	7 g/kg	-	
	salts of thiocyanic acid	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	-

#### Acute toxicity estimates

**SECTION 11: Toxicological information**

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>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
Dextran sulfate sodium	20600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	500	N/A	N/A	N/A	N/A
<b>Hyb Enhancer</b> Formamide	5570	17000	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
salts of thiocyanic acid	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

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Hyb Buffer</b> Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
<b>Soft Conversion Reagent A</b> tetrahydro-2-furyl-methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
<b>Soft Conversion Binding Beads</b> ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-

**Sensitiser**

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

## SECTION 11: Toxicological information

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>Hyb Buffer</b> tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)
Dextran sulfate sodium	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

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

### Aspiration hazard

Not available.

### Information on likely routes of exposure

: 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	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Reagent A	
2X Methyl Amplification Mastermix	Not available.
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Soft Conversion	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Reagent B	
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 17-24	Not available.
Index Primer Mix for ILM 25-32	Not available.

### Potential acute health effects

#### Inhalation

: 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	No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

	Reagent A	
	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.
	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 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 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.
	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 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

**SECTION 11: Toxicological information**

		contact with skin. Causes skin irritation.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent A	
	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.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent B	
	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 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
<b>Eye contact</b>	<b>:</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	Causes serious eye irritation.
	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.
	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 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.

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

## SECTION 11: Toxicological information

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



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**Skin contact**

Reagent B	
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 Solution	No specific data.
Library Binding Beads	No specific data.
Capture Beads	No specific data.
Index Primer Mix for ILM 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.
: 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 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.
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 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.

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<b>Eye 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. Adverse symptoms may include the following: pain or irritation watering redness
	Hyb Enhancer Soft Conversion Reagent A	No specific data. Adverse symptoms may include the following:  pain or irritation watering redness
	2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B	No specific data. No specific data. No specific data. 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 Soft Conversion Elution Buffer	No specific data. Adverse symptoms may include the following:  pain watering redness
	Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	No specific data. No specific data. No specific data. 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**

**Conclusion/Summary** : Not available.

**SECTION 11: Toxicological information**

<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 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.
		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 17-24	No known significant effects or critical hazards.
		Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
	<b>Carcinogenicity</b>	:	Nuclease-Free Water
		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 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.
		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	No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

	17-24		
	Index Primer Mix for ILM	No known significant effects or critical hazards.	
	25-32		
<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	No known significant effects or critical hazards.	
	Reagent A		
	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.	
	Soft Conversion	No known significant effects or critical hazards.	
	Reagent B		
	Soft Conversion Binding	No known significant effects or critical hazards.	
	Beads		
	5X Soft Conversion	No known significant effects or critical hazards.	
	Wash Buffer		
	Soft Conversion Elution	No known significant effects or critical hazards.	
	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	No known significant effects or critical hazards.	
	17-24		
	Index Primer Mix for ILM	No known significant effects or critical hazards.	
	25-32		
<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	May damage fertility. May damage the unborn child.	
	Reagent A		
	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.	
	Soft Conversion	No known significant effects or critical hazards.	
	Reagent B		
	Soft Conversion Binding	No known significant effects or critical hazards.	
	Beads		
	5X Soft Conversion	No known significant effects or critical hazards.	
	Wash Buffer		
	Soft Conversion Elution	No known significant effects or critical hazards.	
	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.	

**SECTION 11: Toxicological information**

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.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

End Prep Buffer Adverse symptoms may include the following: May cause skin sensitisation.  
 Adapter for ILM Adverse symptoms may include the following: May cause skin sensitisation.  
 Hyb Enhancer Adverse symptoms may include the following: May cause eye irritation. May cause skin irritation.

**SECTION 12: Ecological information**

**12.1 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 µg/l Fresh water	Crustaceans - <i>Eudiaptomus padanus ssp. padanus</i> - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - <i>Lemna aequinoctialis</i>	96 hours
	Acute LC50 32000 µg/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>Hyb Buffer</b>			
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Acute EC50 210 µg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - <i>Pandalus montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>Hyb Enhancer</b>			
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 6569 mg/l Fresh water	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
<b>Soft Conversion Reagent A</b>			
tetrahydro-2-furyl-methanol	Acute EC50 >98.9 mg/l	Algae	72 hours
	Acute EC50 >91.7 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >101 mg/l	Fish	96 hours
<b>Soft Conversion Binding Beads</b>			
ethanol	Acute EC50 3306 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 1074 mg/l Fresh water	Crustaceans - <i>Cypris subglobosa</i>	48 hours

## SECTION 12: Ecological information

Poly(oxy-1,2-ethanediyl), . alpha.-[ (1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Acute EC50 2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 11000000 µg/l Marine water	Fish - <i>Alburnus alburnus</i>	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 100 µl/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Acute EC50 210 µg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - <i>Pandalus montagui</i> - Adult	48 hours
Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours	
Acute LC50 7200 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours	

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>Hyb Enhancer</b> Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
<b>Soft Conversion Reagent A</b> tetrahydro-2-furyl-methanol	-	92 % - Readily - 28 days	-	-
<b>Soft Conversion Binding Beads</b> salts of thiocyanic acid	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Nuclease-Free Water</b> water	-	-	Readily
<b>Hyb Buffer</b> tetramethylammonium chloride	-	-	Readily
<b>Hyb Enhancer</b> Formamide	-	-	Readily
<b>Soft Conversion Reagent A</b> tetrahydro-2-furyl-methanol	-	-	Readily
<b>Soft Conversion Binding Beads</b> ethanol	-	-	Readily
salts of thiocyanic acid	-	-	Inherent

### 12.3 Bioaccumulative potential



## SECTION 12: Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Nuclease-Free Water</b> water	-1.38	-	Low
<b>Hyb Buffer</b> tetramethylammonium chloride	<-1.6	-	Low
Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	2.7	78.67	Low
<b>Hyb Enhancer</b> Formamide	-0.82	-	Low
<b>Soft Conversion Reagent A</b> tetrahydro-2-furyl-methanol	0.722	-	Low
<b>Soft Conversion Binding Beads</b> ethanol	-0.35	0.5	Low
salts of thiocyanic acid	<-1.7	-	Low
Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	2.7	78.67	Low

### 12.4 Mobility in soil

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

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
<b>Nuclease-Free Water</b> water	Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

### 12.6 Endocrine disrupting properties

Soft Conversion Binding Beads Contains one or more substances considered to have endocrine-disrupting properties.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

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




**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

## SECTION 13: Disposal considerations

### Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : Dispose of material(s) and residues under controlled conditions. 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

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9 	9 	9 
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.

### Additional information

Remarks: Excepted Quantity

- ADR/RID** : **Hazard identification number** 90  
**Limited quantity** See SP 251  
**Special provisions** 251, 340, 671  
**Tunnel code** (E)
- 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

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

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

## SECTION 15: Regulatory information

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

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Annex XIV](#)

**SECTION 15: Regulatory information**

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
<b>Hyb Buffer</b> Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.- hydroxy-	Endocrine disrupting properties for environment	Listed	42	7/3/2017
<b>Soft Conversion Binding Beads</b> Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.- hydroxy-	Endocrine disrupting properties for environment	Listed	42	7/3/2017

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
<b>Hyb Buffer</b> Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.- hydroxy-	Endocrine disrupting properties for environment	Recommended	ED/169/2012	7/3/2017
<b>Hyb Enhancer</b> Formamide	Toxic to reproduction	Candidate	ED/87/2012	6/18/2012
<b>Soft Conversion Binding Beads</b> Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.- hydroxy-	Endocrine disrupting properties for environment	Recommended	ED/169/2012	7/3/2017

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

Product / Ingredient name	Identifiers	Designation [Usage]
<b>End Prep Buffer</b> End Prep Buffer		3
<b>Hyb Buffer</b> Hyb Buffer		3
<b>Hyb Enhancer</b> Hyb Enhancer		3
Formamide		30 30
<b>Soft Conversion Reagent A</b> Soft Conversion Reagent A		3
tetrahydro-2-furyl-methanol		30 30
<b>Soft Conversion Reagent B</b> Soft Conversion Reagent B ammonium hydrogensulphite		3 65
<b>Soft Conversion Binding Beads</b> Soft Conversion Binding Beads		3
<b>Soft Conversion Elution Buffer</b> Soft Conversion Elution Buffer		3

**SECTION 15: Regulatory information**

<b>Label</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	Restricted to professional users.
		Soft Conversion Reagent A	Restricted to professional users.
		2X Methyl Amplification Mastermix	Not applicable.
		Library Wash Buffer	Not applicable.
		Hyb Wash Buffer 1	Not applicable.
		Hyb Wash Buffer 2	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 17-24	Not applicable.
		Index Primer Mix for ILM 25-32	Not applicable.

**Other EU regulations**

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

Not listed.

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

Not listed.

**Persistent Organic Pollutants**

Not listed.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**Danger criteria**

<b>Category</b>
<b>Hyb Buffer</b> H3
<b>Soft Conversion Binding Beads</b> P5c E1

**National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
<b>Hyb Enhancer</b> formamide	Ireland Occupational Exposure Limits	formamide	Repro. Repr.1B	-

**International regulations**

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

Not listed.

**Montreal Protocol**

## SECTION 15: Regulatory information

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](#)

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

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

## SECTION 16: Other information

📌 Indicates information that has changed from previously issued version.

<b>Abbreviations and acronyms</b>	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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### [Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

Classification	Justification
<b>End Prep Buffer</b> Aquatic Chronic 3, H412	Calculation method
<b>Hyb Buffer</b> Acute Tox. 4, H302 Skin Irrit. 2, H315 STOT SE 1, H370 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method
<b>Hyb Enhancer</b> Carc. 2, H351	Calculation method

**SECTION 16: Other information**

Repr. 1B, H360 STOT RE 2, H373  <b>Soft Conversion Reagent A</b> Eye Irrit. 2, H319 Repr. 1B, H360FD  <b>Soft Conversion Reagent B</b> Eye Irrit. 2, H319  <b>Soft Conversion Binding Beads</b> Flam. Liq. 3, H226 Skin Corr. 1C, H314 Aquatic Acute 1, H400 Aquatic Chronic 2, H411  <b>Soft Conversion Elution Buffer</b> Skin Corr. 1, H314	Calculation method Calculation method  Calculation method Calculation method  Calculation method  On basis of test data Calculation method Calculation method Calculation method  On basis of test data
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Full text of abbreviated H statements

<b>End Prep Buffer</b> H410 H412  <b>Hyb Buffer</b> H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411 H412  <b>Hyb Enhancer</b> H351 H360 H373  <b>Soft Conversion Reagent A</b> H319 H360FD  <b>Soft Conversion Reagent B</b> H319 EUH031  <b>Soft Conversion Binding Beads</b> H225 H226 H302 H312 H314 H315 H318 H319 H332 H400 H410	Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.  Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.  Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.  Causes serious eye irritation. May damage fertility. May damage the unborn child.  Causes serious eye irritation. Contact with acids liberates toxic gas.  Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
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**SECTION 16: Other information**

H411 H412 EUH032 EUH071	Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Contact with acids liberates very toxic gas. Corrosive to the respiratory tract.
<b>Soft Conversion Elution Buffer</b> H314	Causes severe skin burns and eye damage.

[Full text of classifications \[CLP/GHS\]](#)

<b>End Prep Buffer</b> Aquatic Chronic 1 Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
<b>Hyb Buffer</b> Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2 STOT SE 1  STOT SE 3	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<b>Hyb Enhancer</b> Carc. 2 Repr. 1B STOT RE 2	CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
<b>Soft Conversion Reagent A</b> Eye Irrit. 2 Repr. 1B	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 REPRODUCTIVE TOXICITY - Category 1B
<b>Soft Conversion Reagent B</b> Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Soft Conversion Binding Beads</b> Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1C Skin Irrit. 2	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2
<b>Soft Conversion Elution Buffer</b> Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1

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

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

**Version** : 1.1

[Notice to reader](#)

## **SECTION 16: Other information**

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