



# SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier

Product name	: Avida DNA Reagent Kit with 17-32 Index Primer Pairs for ILM, 16 Reactions, Part Number G9409B
CAS number	: Nuclease-Free Water 7732-18-5 Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Resuspension Buffer Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Ligation Enzyme Not applicable. Hyb Blocker Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Mastermix Library Binding Beads Not applicable. Index Primer Mix for ILM Not applicable. 17-24 Index Primer Mix for ILM Not applicable. 25-32
Part no. (chemical kit)	: G9409B
Part no.	: Avida DNA and Duo Reagent Box 2, 16 reactions Nuclease-Free Water 5271-0107 Library Wash Buffer 1 5271-0103 Hyb Wash Buffer 2 5271-0104 Hyb Wash Buffer 2 5271-0105 Resuspension Buffer 5271-0106 Avida DNA Reagent Box 1, 16 Reactions 5282-0139 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 5271-0100 Hyb Enhancer 5271-0101 2X Amplification Mastermix 5271-0102 Avida Beads Box, 16 Reactions 5282-0143 Library Binding Beads 5271-0108 Capture Beads 5271-0109 Avida Index Primer Pairs 17-32 for ILM 5280-0053 Index Primer Mix for ILM 17-24 5274-0077 Index Primer Mix for ILM 17-24 5274-0078

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

**Identified uses** 

: Analytical reagent. For research use only.

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

	Nuclease-Free Water	0.88 ml (16 reactions)
	Library Wash Buffer	6.336 ml (16 reactions)
	Hyb Wash Buffer 1	2 x 5.28 ml (16 reactions)
	Hyb Wash Buffer 2	2 x 2.64 ml (16 reactions)
	Resuspension Buffer	0.352 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)
	2X Amplification Mastermix	0.44 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
Uses advised against	: 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 : pdl-msds\_author@agilent.com responsible for this SDS

#### 1.4 Emergency telephone number

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

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	Mono-constituent substance Mixture	

		lation (EO) No. 4070/0		
Classification accordin	<u>ig to Regu</u>	<u>ιατιοή (EC) No. 1272/2</u>		
End Prep Buffer				Catagan
H412	LONG-TE	RM (CHRONIC) AQUA	TIC HAZARD	Category 3
Hyb Buffer				
H302		OXICITY (oral)		Category 4
H315		RROSION/IRRITATION		Category 2
H370			XICITY - SINGLE EXPOSURE	Category 1
H412		RM (CHRONIC) AQUA		Category 3
				0
Hyb Enhancer				
H351	CARCINC	GENICITY		Category 2
H360	REPROD	UCTIVE TOXICITY		Category 1B
H373		CTARGET ORGAN TO	XICITY - REPEATED	Category 2
	EXPOSU	RE		
Nuclease-Free Water		The product is not cla	ssified as hazardous according t	to Regulation (EC)
		1272/2008 as amend		
Library Wash Buffer		The product is not cla	ssified as hazardous according t	to Regulation (EC)
		1272/2008 as amend		
Hyb Wash Buffer 1			ssified as hazardous according t	to Regulation (EC)
		1272/2008 as amend		
Hyb Wash Buffer 2		-	ssified as hazardous according t	to Regulation (EC)
Decuencian Duffer		1272/2008 as amend		$r = D_{r}$
Resuspension Buffer		1272/2008 as amend	essified as hazardous according t	to Regulation (EC)
End Prep Buffer			ed. ied as hazardous according to R	equilation (EC) 1272/2008 as
End Frep Buller		amended.	ied as hazardous according to re	
End Prep Enzyme			ssified as hazardous according t	o Regulation (EC)
		1272/2008 as amend		
Ligation Buffer			assified as hazardous according t	to Regulation (EC)
		1272/2008 as amend		
Ligation Enzyme			ssified as hazardous according t	to Regulation (EC)
0		1272/2008 as amend		<b>č</b>
Adapter for ILM		The product is not cla	ssified as hazardous according t	to Regulation (EC)
		1272/2008 as amend		
Hyb Blocker		•	ssified as hazardous according t	to Regulation (EC)
		1272/2008 as amend		
Hyb Buffer		•	ied as hazardous according to R	egulation (EC) 1272/2008 as
		amended.		
Hyb Enhancer			ied as hazardous according to R	egulation (EC) 1272/2008 as
		amended.		
2X Amplification Master	mix	1272/2008 as amend	ssified as hazardous according t	to Regulation (EC)
Library Binding Beads			eo. Issified as hazardous according t	a Population (EC)
Library binding beaus		1272/2008 as amend		
Capture Beads			ussified as hazardous according t	Regulation (EC)
Capture Deads		1272/2008 as amend		
Index Primer Mix for ILN	1 17-24		ussified as hazardous according t	o Regulation (EC)
		1272/2008 as amend		
Index Primer Mix for ILN	1 25-32		ssified as hazardous according t	to Regulation (EC)
		1272/2008 as amend		5 ( )
Ingredients of unknow	<b>n</b> · Libr	ary Wash Buffer	Percentage of the mixture cons	sisting of ingredient(s) of
toxicity		ary maon Banor	unknown acute inhalation toxici	
,	Hyb	Wash Buffer 1	Percentage of the mixture cons	
	<b>,</b> -		unknown acute inhalation toxici	
	Enc	l Prep Buffer	Percentage of the mixture cons	
			unknown acute inhalation toxici	ity: 1 - 10%
	Enc	l Prep Enzyme	Percentage of the mixture cons	
			unknown acute inhalation toxici	
	Liga	ation Buffer	Percentage of the mixture cons	
			unknown acute inhalation toxici	
	Liga	ation Enzyme	Percentage of the mixture cons	
			unknown acute inhalation toxici	iy. 30 - 00%

## **SECTION 2: Hazards identification**

	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
		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%
	2X Amplification Mastermix	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%
Ingredients of unknown ecotoxicity	: Hyb Buffer	Contains 3.4% 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

**Hazard pictograms** 

: Hyb Buffer

Hyb Enhancer

#### Signal word

Signal word	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	No signal word. No signal word. Danger Danger No signal word. No signal word.
Hazard statements	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. 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. H302 - Harmful if swallowed.

H315 - Causes skin intration.         H375 - Causes skin intration.         H412 - Harmful to squate life with long lasting effects.         H412 - Harmful to squate life with long lasting effects.         H360 - May damage for tilly or the unborn child.         H373 - May cause damage to organs.         H384 - Max mathematic         Mastermix         H384 - Max mathematic         H384 - Max mathematic         Mastermix         H384 - Max mathematic         H384 - Max mathematic <t< th=""><th></th><th></th><th></th></t<>			
H370 - Causes damage to organs.         H412 - Harmult to auguato 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.         2X Amplification       No known significant effects or critical hazards.         Masternik       No known significant effects or critical hazards.         Library Binding 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         Prevention       : Nuclease-Free Water       Not applicable.         Hyb Wash Buffer       Not applicable.         Hyb Wash Buffer       Not applicable.         Hyb Wash Buffer       Not applicable.         Hyb Buffer For ILM       Not applicable.         Hyb Buffer For ILM       Not applicable.         Hyb Buffer       P280 - Wear protective gloves.         Hyb Buffer       P280 - Wear protective gloves.         Hyb Buffer       Not applicable.         Hyb Buffer       Not applicable.         Hyb Buffer       P280 - Wear protective gloves.			H315 - Causes skin irritation.
H412 - Harmful to aquatic life with long lasting effects.         Hyb Enhancer       H360 - May damage fertility or the unborn child.         H373 - May cause damage to organs through prolonged or repeated exposure.       No known significant effects or critical hazards.         Library Binding Beads       No known significant effects or critical hazards.       No known significant effects or critical hazards.         Index Primer Mix for ILM       No known significant effects or critical hazards.       No known significant effects or critical hazards.         Index Primer Mix for ILM       No known significant effects or critical hazards.       No known significant effects or critical hazards.         Index Primer Mix for ILM       No known significant effects or critical hazards.       No known significant effects or critical hazards.         Provention       1       Nuclease-Free Water       Not applicable.         Provention       1       Nuclease-Free Water       Not applicable.         Hyb Wash Buffer       Not applicable.       Not applicable.         Hyb Wash Buffer       Not applicable.       Not applicable.         Hyb Buffer       Not applicable.       Not applicable.         Hyb Buffer       Not applicable.       Not applicable.         Hyb Wash Buffer       Not applicable.       Not applicable.         Hyb Buffer       Not applicable.       Not applicable.			
Hyb Enhancer       H351 - Suspected of Causing cancer.         H351 - Suspected of Causing cancer.       H351 - Suspected of Causing certifity or the unborn child.         H373 - May cause damage to organs through prolonged or repeated exposure.       No known significant effects or critical hazards.         Library Binding Beads       No known significant effects or critical hazards.         Library Binding 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         Precautionary statements       Not applicable.         Prevention       :       Nuclease-Free Water         Hyb Wash Buffer       Not applicable.         Hyb Wash Buffer       Not applicable.         Hyb Wash Buffer       Not applicable.         Hyb Buffer       Not applicable.         End Prep Enzyme       Not applicable.         Ligation Buffer       Not applicable.         Hyb Buffer       P230 - Wear protective gloves.         Hyb Buffer       P230 - Vear applicable.         Hyb Buffer       P230 - Vear protective gloves.         Hyb Buffer       Not applicable.         Hyb Buffer       Not applicabl			
H360 - May damage fortility of the unborn child.       H373 - May cause damage to organs through prolonged or repeated exposure.       2X Amplification       Mastermix       Library Binding Beads       Capture Beads       Capture Beads       Capture Beads       Capture Beads       No known significant effects or critical hazards.       Index Primer Mix for ILM       No known significant effects or critical hazards.       Prevention       Index Primer Mix for ILM       No known significant effects or critical hazards.       Prevention       Index Primer Mix for ILM       No known significant effects or critical hazards.       Prevention       Index Primer Mix for ILM       No known significant effects or critical hazards.       Prevention       Index Primer Mix for ILM       No tapplicable.       Hyb Wash Buffer 1       Not applicable.       Hyb Wash Buffer 2       Not applicable.       Hyb Binfor       P273 - Avoid release to the environment.       Ligation Enzyme       Not applicable.       Hyb Binfor       P273 - Avoid release to the environment.       P273 - Novid release to the environment.       P273 - Avoid release to the environment.       P273 - Avoid release to the environment.       P27			
Precautionary statements     H373 - May cause damage to organs through prolonged or repeated exposure.       2X Amplification     No known significant effects or critical hazards.       Masternix     Library Binding Beads     No known significant effects or critical hazards.       1/7-24     Index Primer Mix for ILM     No known significant effects or critical hazards.       1/7-24     Index Primer Mix for ILM     No known significant effects or critical hazards.       25-32     Library Wash Buffer     Not applicable.       Prevention     : Nuclease-Free Water     Not applicable.       Library Wash Buffer     Not applicable.       Hyb Wash Buffer     Not applicable.       Hyb Wash Buffer     Not applicable.       Ligation Buffer     Not applicable.       Ligation Buffer     Not applicable.       Ligation Buffer     Not applicable.       Hyb Buffer     Not applicable.		Hyb Enhancer	
ZX Amplification Masternix Library Binding Bada Capture Beads       No known significant effects or critical hazards.         Index Primer Mix for ILM Index Primer Mix for ILM Index Primer Mix for ILM 25-32       No known significant effects or critical hazards.         Precautionary statements       Nuclease-Free Water Library Buffer       Not applicable.         Prevention       1       Nuclease-Free Water Library Wash Buffer       Not applicable.         Hyb Wash Buffer 1       Not applicable.       Not applicable.         Hyb Wash Buffer 2       Not applicable.       Not applicable.         Hyb Wash Buffer 1       Not applicable.       Not applicable.         Hyb Wash Buffer 2       Not applicable.       Not applicable.         Hyb Wash Buffer 1       Not applicable.       Not applicable.         Hyb Wash Buffer 2       Not applicable.       Not applicable.         Ligation Enzyme Not applicable.       Not applicable.       Not applicable.         Hyb Buffer 1       Not applicable.       P273 - Avoid release to the environment.         Hyb Buffer 2       Not applicable.       P270 - Do not breathe vapour.         P270 - Do not breathe vapour.       P270 - Do not breathe vapour.         P270 - Do not breathe vapour.       P260 - Do not breathe vapour.         P260 - Do not breathe vapour.       P260 - Do not breathe vapour.			H360 - May damage fertility or the unborn child.
ZX Amplification Masternix Library Binding Bads Capture Beads       No known significant effects or critical hazards.         Index Primer Mix for ILM Index Primer Mix for ILM Index Primer Mix for ILM 25-32       No known significant effects or critical hazards.         Precautionary statements       Index Primer Mix for ILM No known significant effects or critical hazards.         Prevention       1       Nuclease-Free Water Library Buffer       Not applicable.         Hyb Wash Buffer 1       Not applicable.       Not applicable.         Ligation Enzyme Not applicable.       Not applicable.       Not applicable.         Hyb Buffer 1       P273 - Avoid release to the environment.       P270 - Do not breathe vapour.         P270 - Do not breathe vapour.       P270 - Do not breathe vapour.       P270 - Do not breathe vapour.         P270 - Do not breathe vapour.       P260 - Do not breathe vapour.       P260 - Do not breathe vapour.         P270 - Utar Buffer       Not applicable.       Not applicable. <td< th=""><th></th><td></td><td>H373 - May cause damage to organs through prolonged or</td></td<>			H373 - May cause damage to organs through prolonged or
ZX Amplification     No known significant effects or critical hazards.       Masternix     Library Binding 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     Encautionary statements       Precautionary statements     Ibrary Mash Buffer     Not applicable.       Prevention     1. Nuclease-Free Water     Not applicable.       Hyb Wash Buffer     Not applicable.       Ligation Enzyme     Not applicable.       Hyb Binder     Not applicable.       Hyb Binder     Not applicable.       Hyb Buffer     P280 - Vbear protective gloves.       P273 - Avoid release to the environment.     P270 - Do not breathe vapour.       P270			
Mastermix       No known significant effects or critical hazards.         No known significant effects or critical hazards.       No known significant effects or critical hazards.         Index Primer Mix for ILM       No known significant effects or critical hazards.         Precautionary statements       No known significant effects or critical hazards.         Prevention       I. Nuclease-Free Water Library Wash Buffer       Not applicable.         Hyb Wash Buffer       Not applicable.       Not applicable.         Hyb Wash Buffer       Not applicable.       Not applicable.         End Prep Buffer       P273 - Avoid release to the environment.       Not applicable.         Ligation Enzyme       Not applicable.       Not applicable.         Hyb Buffer       Not applicable.       Not applicable.         Ligation Enzyme       Not applicable.       Not applicable.         Hyb Buffer       Not applicable.       Not applicable.         Hyb Enhancer       P270 - Do not reath vapour.       P270 - Do not reath vapour.         P210 - Obtain special instructions before use.       P240 - Do not breath vapour.         <		OV Amerification	
Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24       No known significant effects or critical hazards. No known significant effects or critical hazards.         Precautionary statements       No known significant effects or critical hazards.         Precautionary statements       No known significant effects or critical hazards.         Precautionary statements       No known significant effects or critical hazards.         Precautionary statements       No known significant effects or critical hazards.         Precautionary statements       Not applicable. Not applicable.         Prevention       I. Wolcasse-Free Water Hyb Wash Buffer 1       Not applicable. Not applicable.         Hyb End Buffer       Not applicable. Not applicable.       Not applicable.         Ligation Enzyme Adapter for ILM       Not applicable. Not applicable.       Not applicable.         Hyb Buffer       P280 - Wear protective gloves. P273 - Avoid release to the environment. P280 - Do not breath vapour.       P280 - Wear protective gloves. P273 - Avoid release to the environment. P280 - Do not terat, drink or smoke when using this product. P280 - Wear protective gloves. protective clothing and eye or face protection. P280 - Wear protective gloves. P280 - Wear protectiv		•	No known significant effects of childal hazards.
Capture Beads       No known significant effects or critical hazards.         Index Primer Mix for ILM       No known significant effects or critical hazards.         Precautionary statements       25-32         Precautionary statements       No tapplicable.         Prevention       I. Nuclease-Free Water Library Wash Buffer       Not applicable.         Hyb Enhancer       P230 - Voor treath vapour. </th <th></th> <th></th> <th></th>			
Capture Beads       No known significant effects or critical hazards.         Index Primer Mix for ILM       No known significant effects or critical hazards.         Precautionary statements       25-32         Precautionary statements       No tapplicable.         Prevention       I. Nuclease-Free Water Library Wash Buffer       Not applicable.         Hyb Enhancer       P230 - Voor treath vapour. </th <th></th> <th>Library Binding Beads</th> <th>No known significant effects or critical hazards.</th>		Library Binding Beads	No known significant effects or critical hazards.
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17-24       Index Primer Mix for ILM         Index Primer Mix for ILM       No known significant effects or critical hazards.         25-32       Precautionary statements         Prevention       I. Nuclease-Free Water       Not applicable.         Library Wash Buffer 1       Not applicable.         Hyb Wash Buffer 2       Not applicable.         End Prep Buffer P273 - Avoid release to the environment.       End Prep Buffer P273 - Avoid release to the environment.         Ligation Buffer 1       Not applicable.         Ligation Buffer 1       Not applicable.         Hyb Blocker       Not applicable.         Hyb Blocker       Not applicable.         Hyb Blocker       Not applicable.         Hyb Buffer 1       P230 - Wear protective gloves.         P273 - Avoid release to the environment.       P260 - Do not breath expour.         P260 - Do not breath expour.       P270 - O not e ad, drink or smoke when using this product.         P270 - Darot ed. drink or smoke when using this product.       P260 - Do not breath expour.         P260 - Do not breath expour.       P260 - Do not breath expour.         P260 - Do not breath expour.       P260 - Do not breath expour.         P260 - Do not breath expour.       P260 - Do not breath expour.         Tr24       Index Primer Mix for ILM       Not applicable.			
Index       Primer Mix for ILM       No known significant effects or critical hazards.         25-32       Precautionary statements       Not applicable.         Prevention       I. Nuclease-Free Water       Not applicable.         Hyb Wash Buffer 1       Not applicable.       Not applicable.         Hyb Wash Buffer 2       Not applicable.       Not applicable.         Resuspension Buffer       P273 - Avoid release to the environment.       End Prep Buffer         End Prep Buffer       P273 - Avoid release to the environment.       Ligation Enzyme         Ligation Enzyme       Not applicable.       Not applicable.         Hyb Buffer       P280 - Wear protective gloves.       P273 - Avoid release to the environment.         Hyb Enkocker       P201 - O tati nspecial instructions before use.       P280 - Wear protective gloves., protective clothing and eye or face protection.         P280 - Wear protective gloves., protective clothing and eye or face protection.       P280 - Do not breathe vapour.         P280 - Do not breathe vapour.       P280 - Do not applicable.         Mastermix       Not applicable.         Library Wash Buffer 1       Not applicable.         Mastermix       Not applicable.         Library Wash Buffer 1       Not applicable.         Hyb Enhancer       P280 - Do not breathe vapour.         2			No known significant effects of childar hazards.
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Precention       : Nuclease-Free Water Library Wash Buffer 1       Not applicable. Not applicable.         Hyb Wash Buffer 1       Not applicable.         Hyb Wash Buffer 1       Not applicable.         Hyb Wash Buffer 2       Not applicable.         Hyb Wash Buffer 2       Not applicable.         End Prep Buffer 1       Not applicable.         End Prep Buffer 1       Not applicable.         Ligation Buffer 1       Not applicable.         Hyb Buffer 1       Not applicable.         Hyb Buffer 1       P273 - Avoid release to the environment.         P260 - Do not breathe vapour.       P270 - Do not eatl, drink or smoke when using this product.         P280 - Wear protective gloves, protective clothing and eye or face protection.       P280 - Do not breathe vapour.         P280 - Do not breathe vapour.       P280 - Do not breathe vapour.         P280 - Do not breathe vapour.       P280 - Do not breathe vapour.         P280 - Do not breathe vapour.       P280 - Do not breathe vapour.         P280 - Do not breathe vapour.       P280 - Do not breathe vapour.         P280 - Do not breathe vapour.       P280 - Do not breathe vapour.         P280 - Do n		Index Primer Mix for ILM	No known significant effects or critical hazards.
Prevention       : Nuclease-Free Water Library Wash Buffer       Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.         Hyb Wash Buffer 1       Not applicable. Not applicable. End Prep Buffer       Not applicable. Not applicable. Not applicable. Ligation Enzyme Hyb Blocker         Adapter for ILM Hyb Buffer       Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Hyb Blocker         Hyb Enhancer       P280 - Wear protective gloves. P280 - Wear protective gloves. P280 - Wear protective gloves. P280 - Do not seat, drink or smoke when using this product. P20 - Do not seat, drink or smoke when using this product. P20 - Do not seat, drink or smoke when using and eye or face protective gloves. protective clothing and eye or face protective gloves. P280 - Do not preative vapour. P260 - Do not preative vapour. P260 - Do not preative vapour. Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Buffer Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Not applicable. Hyb Buffer Not applicable. Not appl		25-32	
Prevention       : Nuclease-Free Water Library Wash Buffer       Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.         Hyb Wash Buffer 1       Not applicable. Not applicable. End Prep Buffer       Not applicable. Not applicable. Not applicable. Ligation Enzyme Hyb Blocker         Adapter for ILM Hyb Buffer       Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Hyb Blocker         Hyb Enhancer       P280 - Wear protective gloves. P280 - Wear protective gloves. P280 - Wear protective gloves. P280 - Do not seat, drink or smoke when using this product. P20 - Do not seat, drink or smoke when using this product. P20 - Do not seat, drink or smoke when using and eye or face protective gloves. protective clothing and eye or face protective gloves. P280 - Do not preative vapour. P260 - Do not preative vapour. P260 - Do not preative vapour. Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Buffer Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Not applicable. Hyb Buffer Not applicable. Not applicable. Not applicable. Hyb Buffer Not applicable. Not appl	Brocoutionomy statements		
Library Wash Buffer 1Not applicable.Hyb Wash Buffer 2Not applicable.Hyb Wash Buffer 2Not applicable.Resuspension BufferNot applicable.End Prep BufferP273 - Avoid release to the environment.Ligation EnzymeNot applicable.Ligation EnzymeNot applicable.Adapter for ILMNot applicable.Hyb BufferP280 - Wear protective gloves.Hyb BickerP280 - Wear protective gloves.Hyb BickerP220 - Do not breathe vapour.P270 - Do not eat, drink or smoke when using this product.P280 - Do not breathe vapour.P280 - Do not breathe vapour. <th>Precautionary statements</th> <th></th> <th></th>	Precautionary statements		
Library Wash BufferNot applicable. Not applicable. Not applicable. Not applicable. Not applicable. Resuspension BufferNot applicable. Not applicable. Not applicable. Not applicable. Not applicable. Ligation EnzymeNot applicable. Not applicable.West Former Wix for ILM Not applicable. Not appli	Prevention	: Nuclease-Free Water	Not applicable.
Hyb Wash Buffer 1     Not applicable.       Hyb Wash Buffer     Not applicable.       Resuspension Buffer     Not applicable.       End Prep Enzyme     Not applicable.       Ligation Buffer     Not applicable.       Ligation Buffer     Not applicable.       Ligation Buffer     Not applicable.       Ligation Enzyme     Not applicable.       Adapter for ILM     Not applicable.       Hyb Blocker     Not applicable.       Hyb Blocker     Not applicable.       Hyb Buffer     P280 - Wear protective gloves.       P273 - Avoid release to the environment.     P280 - Do not breathe vapour.       P280 - Do not breathe vapour.     P200 - Do not breathe vapour.       P280 - Ober ot cell instructions before use.     P280 - Do not breathe vapour.       P280 - Do not breathe vapour.     P260 - Do not breathe vapour.       P250 - Do not breathe vapour.     P260 - Do not breathe vapour.       Not applicable.     Not applicable.       Index Primer Mix for ILM     Not applicable.       11/2*4     Not applicable.       11/4*4			
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Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer 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. 2X Amplification Not applicable. Mastermix Library Binding Beads Not applicable.	Response	: Nuclease-Free Water	Not applicable.
Hyb Wash Buffer 1Not applicable.Hyb Wash Buffer 2Not applicable.Resuspension BufferNot applicable.End Prep BufferNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.Ligation EnzymeNot applicable.Adapter for ILMNot applicable.Hyb BlockerNot applicable.Hyb BufferP308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.Hyb EnhancerP308 + P313 - IF exposed or concerned: Get medical advice or attention.2X Amplification Mastermix Library Binding BeadsNot applicable.			•••
Hyb Wash Buffer 2Not applicable.Resuspension BufferNot applicable.End Prep BufferNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.Ligation EnzymeNot applicable.Adapter for ILMNot applicable.Hyb BlockerNot applicable.Hyb BufferP308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.Hyb EnhancerP308 + P313 - IF exposed or concerned: Get medical advice or attention.2X AmplificationNot applicable.Mastermix Library Binding BeadsNot applicable.		5	
Resuspension BufferNot applicable.End Prep BufferNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.Ligation EnzymeNot applicable.Adapter for ILMNot applicable.Hyb BlockerNot applicable.Hyb BufferP308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.Hyb EnhancerP308 + P313 - IF exposed or concerned: Get medical advice or attention.2X AmplificationNot applicable.Mastermix Library Binding BeadsNot applicable.			•••
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End Prep EnzymeNot applicable.Ligation BufferNot applicable.Ligation EnzymeNot applicable.Adapter for ILMNot applicable.Hyb BlockerNot applicable.Hyb BufferP308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.Hyb EnhancerP308 + P313 - IF exposed or concerned: Get medical advice or attention.2X Amplification Mastermix Library Binding BeadsNot applicable.		End Prep Buffer	Not applicable.
Ligation BufferNot applicable.Ligation EnzymeNot applicable.Adapter for ILMNot applicable.Hyb BlockerNot applicable.Hyb BufferP308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.Hyb EnhancerP308 + P313 - IF exposed or concerned: Get medical advice or attention.2X AmplificationNot applicable.MastermixLibrary Binding BeadsNot applicable.Not applicable.		•	
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Hyb BlockerNot applicable.Hyb BufferP308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.Hyb EnhancerP308 + P313 - IF exposed or concerned: Get medical advice or attention.2X AmplificationNot applicable.MastermixLibrary Binding BeadsNot applicable.		Ligation Enzyme	Not applicable.
Hyb BlockerNot applicable.Hyb BufferP308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.Hyb EnhancerP308 + P313 - IF exposed or concerned: Get medical advice or attention.2X AmplificationNot applicable.MastermixLibrary Binding BeadsNot applicable.			Not applicable.
Hyb BufferP308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.Hyb EnhancerP308 + P313 - IF exposed or concerned: Get medical advice or attention.2X Amplification Mastermix Library Binding BeadsNot applicable.			
CENTER or doctor. Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Not applicable. CENTER or doctor. P308 + P313 - IF exposed or concerned: Get medical advice or attention. Not applicable.		-	
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2X Amplification Not applicable. Mastermix Library Binding Beads Not applicable.		Hyb Enhancer	P308 + P313 - IF exposed or concerned: Get medical advice
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Mastermix Library Binding Beads Not applicable.		2X Amplification	
Library Binding Beads Not applicable.		•	itot applicable.
			Natanniashia
Capture Beads Not applicable.			
		Capture Beads	Not applicable.

	luentineation	
	Index Primer Mix for ILM 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
Storage :	Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	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.
	2X Amplification	Not applicable.
	Mastermix	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM	Not applicable.
	17-24	
	Index Primer Mix for ILM 25-32	Not applicable.
Disposal :	Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	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.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM	Not applicable.
	17-24	
	Index Primer Mix for ILM 25-32	Not applicable.
Hazardous ingredients :	Hyb Buffer Hyb Enhancer	tetramethylammonium chloride formamide
Supplemental Jahol	•	
	Nuclease-Free Water	Not applicable.
elements	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	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.
		tet applicable.

Hyb BufferNot applicable.Hyb EnhancerNot applicable.2X AmplificationNot applicable.2X AmplificationNot applicable.MastermixLibrary Binding BeadsNot applicable.Library Binding BeadsNot applicable.Capture BeadsNot applicable.Index Primer Mix for ILMNot applicable.17-24Index Primer Mix for ILMIndex Primer Mix for ILMNot applicable.25-3225-32Annex XVII - Restrictions:Nuclease-Free WaterNot applicable.25-32Library Wash BufferNot applicable.Library Wash BufferNot applicable.Hyb Wash Buffer 1Not applicable.Hyb Wash Buffer 2Angerous substances, mixtures and articlesResuspension BufferNot applicable.End Prep BufferNot applicable.End Prep BufferNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.End Prep EnzymeNot applicable.End Prep EnzymeNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.Ligation BufferNot applicable.Ligation EnzymeNot applicable.Ligation Enz	
2X Amplification Mastermix Library Binding Beads Capture BeadsNot applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. 17-24 Index Primer Mix for ILM Not applicable. 25-32Not applicable. Not applicable. Hyb Wash BufferAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Nuclease-Free Water Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. Not applicable. Not applicable. Not applicable. Hyb Wash Buffer 2 Not applicable. Hyb Wash Buffer Not applicable. End Prep Buffer Not applicable. Not applicable.	
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Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32 Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Capture Beads Not applicable. Not applicable. Hyb Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Not applicable.	
Capture BeadsNot applicable.Index Primer Mix for ILMNot applicable.17-24Index Primer Mix for ILMNot applicable.17-24Index Primer Mix for ILMNot applicable.25-3225-32Not applicable.Annex XVII - Restrictions:Nuclease-Free WaterNot applicable.on the manufacture,:Nuclease-Free WaterNot applicable.placing on the market:Nuclease-Free WaterNot applicable.and use of certain:Hyb Wash Buffer 1Not applicable.dangerous substances,:Resuspension BufferNot applicable.mixtures and articles:End Prep BufferNot applicable.End Prep EnzymeNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.Index Prep EnzymeNot applicable.	
Index Primer Mix for ILMNot applicable.17-24Index Primer Mix for ILMNot applicable.17-24Index Primer Mix for ILMNot applicable.25-3225-32State of applicable.Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articlesNuclease-Free Water Library Wash BufferNot applicable.Hyb Wash Buffer 1Not applicable.Not applicable.Hyb Wash Buffer 2Not applicable.Hyb Wash Buffer 2Not applicable.Hyb Wash Buffer 3Not applicable.Hyb Wash Buffer 4Not applicable.Hyb Wash Buffer 5Not applicable.Hyb Wash Buffer 6Not applicable.Hyb Wash Buffer 7Not applicable.Hyb Wash Buffer 8Not applicable.Hyb Wash Buffer 9Not applicable.Hyb Wash 9Not applicable.Hyb Wash 9Hyb Wash 9Hyb Wash 9Not applicable.Hyb Wash 9Hyb Wash 9	
17-24 Index Primer Mix for ILM 25-32Not applicable. 25-32Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articlesNuclease-Free Water Library Wash BufferNot applicable. Not applicable.	
Index Primer Mix for ILM 25-32Not applicable.Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Nuclease-Free Water Library Wash BufferNot applicable.Hyb Wash Buffer 1 Hyb Wash Buffer 2 End Prep Buffer Ligation BufferNot applicable.Not applicable. Not applicable.Hyb Wash Buffer 1 Hyb Wash Buffer 2Not applicable.Hyb Wash Buffer 2 BufferNot applicable.Hyb Wash Buffer 2 Hyb Wash Buffer 2Not applicable.Hyb Wash Buffer 3 BufferNot applicable.End Prep Buffer Hyb Wash Buffer 3Not applicable.Hyb Wash Buffer 4 BufferNot applicable.End Prep Enzyme Ligation BufferNot applicable.	
25-32 Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles 25-32 Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Library Wash Buffer Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. End Prep Buffer Not applicable. Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articlesNuclease-Free Water Library Wash BufferNot applicable. Not applicable.Hyb Wash Buffer 1 Hyb Wash Buffer 2Not applicable. Not applicable.Hyb Wash Buffer 2 Hyb Wash Buffer 2Not applicable. Not applicable.Hyb Wash Buffer 2 Hyb Wash Buffer 2Not applicable. Not applicable.Hyb Wash Buffer 2 Hyb Wash Buffer 2Not applicable. Not applicable.Hyb Wash Buffer 3 Hyb Wash Buffer 4Not applicable. Not applicable.Hyb Wash Buffer 4 Hyb Wash Buffer 5Not applicable. Not applicable.Hyb Wash Buffer 4 Hyb Wash Buffer 5Not applicable. Not applicable.Hyb Wash Buffer 5 Hyb Wash Buffer 6 Hyb Wash Buffer 7Not applicable. Not applicable.Hyb Wash Buffer 6 Hyb Wash Buffer 7Not applicable. Not applicable.Hyb Wash Buffer 7 Hyb Wash Buffer 7Not applicable. Not applicable.Hyb Wash Buffer 7 Hyb Wash Buffer 7Not applicable. Not applicable.Hyb Wash Buffer 7 Hyb Wash Buffer 7Not applicable. Not applicable.	
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articlesLibrary Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2Not applicable. Not applicable.	
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and use of certain dangerous substances, mixtures and articlesHyb Wash Buffer 2 Resuspension BufferNot applicable.Hyb Wash BufferNot applicable.Resuspension BufferNot applicable.End Prep BufferNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.	
dangerous substances, mixtures and articlesResuspension BufferNot applicable.End Prep BufferNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.	
mixtures and articlesEnd Prep BufferNot applicable.End Prep EnzymeNot applicable.Ligation BufferNot applicable.	
End Prep Enzyme Not applicable. Ligation Buffer Not applicable.	
Ligation Buffer Not applicable.	
LIGATION ENZYME NOT ADDIICADIE.	
<b>0 1</b>	
Adapter for ILM Not applicable.	
Hyb Blocker Not applicable.	
Hyb Buffer Not applicable. Hyb Enhancer Restricted to professional users.	
Hyb EnhancerRestricted to professional users.2X AmplificationNot applicable.	
Mastermix	
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 : Nuclease-Free Water Not applicable.	
danger Library Wash Buffer Not applicable.	
Hyb Wash Buffer 1 Not applicable.	
Hyb Wash Buffer 2 Not applicable.	
Resuspension Buffer 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.	
2X Amplification Not applicable.	
Mastermix	
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.	
Index Primer Mix for ILM Not applicable. 25-32	
2.2 Other hererde	
2.3 Other hazards	

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: PBT	Р	В	Т	vPvB	vP	vB	
	Nuclease- Free Water Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A	
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	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
	Hyb Wash Buffer 2	assessed to be a PBT or a vPvB. This mixture does not contain any substances that are
		assessed to be a PBT or a vPvB.
	Resuspension Buffer	This mixture does not contain any substances that are
	End Prep Buffer	assessed to be a PBT or a vPvB. This mixture does not contain any substances that are
	·	assessed to be a PBT or a vPvB.
	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
	Ligation Enzyme	assessed to be a PBT or a vPvB. This mixture does not contain any substances that are
		assessed to be a PBT or a vPvB.
	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
	Hyb Buffer	assessed to be a PBT or a vPvB. This mixture does not contain any substances that are
	Tiyb Duller	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.
	2X Amplification Mastermix	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
	Index Primer Mix for II M	assessed to be a PBT or a vPvB. This mixture does not contain any substances that are
	17-24	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.
Other hazards which do :	Nuclease-Free Water	None known.
not result in	Library Wash Buffer	None known.
classification	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2 Resuspension Buffer	None known. 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 Hyb Buffer	None known. None known.
	Hyb Enhancer	None known.
	2X Amplification	None known.
	Mastermix	
	Library Binding Beads	None known.
	Capture Beads Index Primer Mix for ILM	None known. None known.
	17-24	
	Index Primer Mix for ILM 25-32	None known.

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

3.1 Substances	: Nuclease-Free Wate Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mas Library Binding Bead Capture Beads Index Primer Mix for Index Primer Mix for	r stermix Is ILM 17-24	Mono-constituer Mixture	nt substance
1				0

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Nuclease-Free Water					
water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	-	[1]
End Prep Buffer					
magnesium chloride	EC: 232-094-6 CAS: 7786-30-3	<2.5	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
End Prep Enzyme					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
Ligation Enzyme					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
Hyb Buffer					
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]

SECTION 3: Composition/information on ingredients					
Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	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]
Hyb Enhancer					
formamide	EC: 200-842-0 CAS: 75-12-7	≥90	Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 (blood) (oral)	-	[1] [2]
2X Amplification Mastermix					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified.	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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

Туре	
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
2X Amplification Mastermix	[1] Substance with a workplace exposure limit

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

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	: 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.
	Library Wash Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Hyb Wash Buffer 1	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Hyb Wash Buffer 2	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Resuspension Buffer	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	End Prep Buffer	any contact lenses. Get medical attention if irritation occurs Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	End Prep Enzyme	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
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## **SECTION 4: First aid measures**

Inhalation

	Ligation Buffer	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Ligation Enzyme	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Adapter for ILM	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Hyb Blocker	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Hyb Buffer	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Hyb Enhancer	any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, 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. Get medical attention.
	2X Amplification Mastermix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get 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.
:	Nuclease-Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Library Wash Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hyb Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hyb Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Resuspension Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	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
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# **SECTION 4: First aid measures**

		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
	Hyb Buffer	symptoms occur. 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
	Hyb Enhancer	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. 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
	2X Amplification Mastermix	under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
	Library Binding Beads	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
	Capture Beads	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Index Primer Mix for ILM 17-24	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Index Primer Mix for ILM 25-32	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Nuclease-Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Library Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	Hyb Wash Buffer 1	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	Hyb Wash Buffer 2	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
_	Resuspension Buffer	Flush contaminated skin with plenty of water. Remove
Date of issue/Date of revision	: 11/04/2024 Date of previous	s issue : 23/02/2024 Version : 1.1 <b>12/63</b>

## **SECTION 4: First aid measures**

Ingestion

	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
End Prep Enzyme	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Ligation Buffer	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Ligation Enzyme	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Adapter for ILM	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Hyb Blocker	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Hyb Buffer	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at
Hyb Enhancer	least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. 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
2X Amplification Mastermix	shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Library Binding Beads	symptoms occur. 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.
: 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.
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
Hyb Wash Buffer 2	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to

## **SECTION 4: First aid measures**

u measures	
	do so by medical personnel. Get medical attention if symptoms occur.
Resuspension Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if
End Prep Buffer	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to
End Prep Enzyme	do so by medical personnel. 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
Ligation Buffer	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if
Ligation Enzyme	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if
Adapter for ILM	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if
Hyb Blocker	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Hyb Buffer	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical
Hyb Enhancer	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. 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
2X Amplification Mastermix	medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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<b>SECTION 4: First ai</b>	SECTION 4: First aid measures			
	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		
	Capture Beads	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if		
	Index Primer Mix for ILM 17-24	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if		
	Index Primer Mix for ILM 25-32	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.		
Protection of first-aiders	: Nuclease-Free Water	No action shall be taken involving any personal risk or		
	Library Wash Buffer	without suitable training. No action shall be taken involving any personal risk or		
	Hyb Wash Buffer 1	without suitable training. No action shall be taken involving any personal risk or		
	Hyb Wash Buffer 2	without suitable training. No action shall be taken involving any personal risk or		
	Resuspension Buffer	without suitable training. No action shall be taken involving any personal risk or		
	End Prep Buffer	without suitable training. No action shall be taken involving any personal risk or		
	End Prep Enzyme	without suitable training. No action shall be taken involving any personal risk or		
	Ligation Buffer	without suitable training. No action shall be taken involving any personal risk or		
	Ligation Enzyme	without suitable training. No action shall be taken involving any personal risk or		
	Adapter for ILM	without suitable training. No action shall be taken involving any personal risk or		
	Hyb Blocker	without suitable training. No action shall be taken involving any personal risk or		
	Hyb Buffer	without suitable training. No action shall be taken involving any personal risk or		
	Hyb Enhancer	without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk or		
		without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		
	2X Amplification Mastermix Library Binding Beads	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or		
	Capture Beads	without suitable training. No action shall be taken involving any personal risk or		
	Index Primer Mix for ILM	without suitable training. No action shall be taken involving any personal risk or		
	17-24 Index Primer Mix for ILM 25-32	without suitable training. No action shall be taken involving any personal risk or without suitable training.		
		manear ourapie raining.		

## **SECTION 4: First aid measures**

	mptoms and effects, both acute	and delayed
Potential acute health	<u>i effects</u>	
Eye contact	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	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.
	HybBlocker	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.
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	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 olymnoant onoolo or onlioar hazardo.
	Index Primer Mix for ILM	No known significant effects or critical hazards.
	25-32	No known signmount cheolo or ontiour nazardo.
Inhalation	: Nuclease-Free Water	No known significant offacts or critical bazards
Innalation		No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	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.
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	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	
Skin contact	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	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.
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.

# SECTION 4: First aid measures

52011014.1115t alu	illeasules	
	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.
-	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	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.
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	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.
Over-exposure signs/sympt		
Eye contact :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme Ligation Buffer	No specific data. No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hvb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		pain or irritation
		watering redness
	Hyb Enhancer	No specific data.
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM	No specific data.
	17-24	N
	Index Primer Mix for ILM 25-32	No specific data.
Inhalation :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Ŵash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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.
		1

## **SECTION 4: First aid measures**

	medealee	
	Hyb Enhancer	Adverse symptoms may include the following:
	5	reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM	No specific data.
	17-24	
	Index Primer Mix for ILM	No specific data.
	25-32	
Skin contact :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	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
	2X Amplification	No specific data.
	Mastermix	···
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM	•
		No specific data.
	17-24	Number of the state
	Index Primer Mix for ILM	No specific data.
	25-32	
Ingestion :	Nuclease-Free Water	No specific data.
-	Library Wash Buffer	No specific data.
	Hyb Ŵash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM	No specific data.
		no specilio dala.
	17-24 Index Drimer Mix for ILM	No aposifia data
	Index Primer Mix for ILM	No specific data.
	25-32	

# **SECTION 4: First aid measures**

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

Notes to physician	Nuclease-Free Water	Treat symptomatically. Contact poison treatment specialist
		immediately if large quantities have been ingested or inhaled.
	Library Wash Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Resuspension Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	End Prep Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	End Prep Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ligation Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Ligation Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Adapter for ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Blocker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Hyb Enhancer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	2X Amplification	Treat symptomatically. Contact poison treatment specialist
	Mastermix	immediately if large quantities have been ingested or inhaled.
	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.
	Library Wash Buffer	No specific treatment.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2	No specific treatment. No specific treatment.
	Resuspension Buffer	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 Hyb Blocker	No specific treatment. No specific treatment.
	Hyb Buffer	No specific treatment.
	Hyb Enhancer	No specific treatment.
	2X Amplification	No specific treatment.
	Mastermix	No enecifie treatment
	Library Binding Beads	No specific treatment.
	Capture Beads Index Primer Mix for ILM	No specific treatment. No specific treatment.
	17-24	
	Index Primer Mix for ILM 25-32	No specific treatment.

## **SECTION 5: Firefighting measures**

	•	
5.1 Extinguishing media		
Suitable extinguishing	: Nuclease-Free Water	Use an extinguishing agent suitable for the surrounding fire.
media	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.
	Resuspension Buffer End Prep Buffer	Use an extinguishing agent suitable for the surrounding fire. 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.
	2X Amplification Mastermix	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	
	Index Primer Mix for ILM 25-32	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing	: Nuclease-Free Water	None known.
media	Library Wash Buffer	None known.
	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2	None known.
	Resuspension Buffer End Prep Buffer	None known. 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 2X Amplification Mastermix	None known. 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		
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.
	Library Wash Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	Resuspension Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	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
	End Prep Enzyme	discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst.

## **SECTION 5: Firefighting measures**

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

#### SECTION 5: Firefighting measures Hyb Enhancer Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides 2X Amplification Decomposition products may include the following materials: Mastermix carbon dioxide carbon monoxide 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 No specific data. 17-24 Index Primer Mix for ILM No specific data. 25-32 5.3 Advice for firefighters **Special precautions for** : Nuclease-Free Water Promptly isolate the scene by removing all persons from the fire-fighters vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Library Wash Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Hyb Wash Buffer 1 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Hyb Wash Buffer 2 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the **Resuspension Buffer** 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. Promptly isolate the scene by removing all persons from the Ligation 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 Ligation Enzyme 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. Promptly isolate the scene by removing all persons from the Hyb Enhancer vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 2X Amplification Promptly isolate the scene by removing all persons from the Mastermix vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Library Binding Beads Promptly isolate the scene by removing all persons from the

 Date of issue/Date of revision
 : 11/04/2024
 Date of previous issue
 : 23/02/2024
 Version
 : 1.1

22/63

# **SECTION 5: Firefighting measures**

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	Capture Beads Index Primer Mix for ILM 17-24 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. 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. 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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire- fighters	: 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.
	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
	Resuspension Buffer	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
	End Prep Buffer	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)
	End Prep Enzyme	conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
	Ligation Buffer	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
	Ligation Enzyme	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)

## **SECTION 5: Firefighting measures**

Adapter for ILM	conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)
Hyb Blocker	conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
Hyb Buffer	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
Hyb Enhancer	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
2X Amplification Mastermix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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.

6.1 Personal precautions	s, protective equipment and e	emergency procedures
For non-emergency personnel	: Nuclease-Free Water	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
	Library Wash Buffer	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.
		Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	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
	Hyb Wash Buffer 2	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
	Resuspension Buffer	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
	End Prep Buffer	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
	End Prep Enzyme	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
	Ligation Buffer	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	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. 2X Amplification No action shall be taken involving any personal risk or Mastermix 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. No action shall be taken involving any personal risk or Capture Beads 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 No action shall be taken involving any personal risk or 17-24 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 No action shall be taken involving any personal risk or 25-32 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. For emergency : Nuclease-Free Water If specialised clothing is required to deal with the spillage, responders take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency 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 nonemergency personnel". If specialised clothing is required to deal with the spillage, Hyb Wash Buffer 1 take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". If specialised clothing is required to deal with the spillage, Hyb Wash Buffer 2 take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". If specialised clothing is required to deal with the spillage, **Resuspension Buffer** take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency 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 nonemergency 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 nonemergency personnel". If specialised clothing is required to deal with the spillage, Ligation Buffer take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

	dental release measur	
	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-
	Adapter for ILM	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Hyb Blocker	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Hyb Buffer	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Hyb Enhancer	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	2X Amplification Mastermix	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
	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-
	Capture Beads	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Index Primer Mix for ILM 17-24	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
	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
	Library Wash Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Hyb Wash Buffer 1	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Hyb Wash Buffer 2	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Resuspension Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	End Prep Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

	authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large	
End Prep Enzyme	quantities. 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	
Ligation Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution	
Ligation Enzyme	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution	
Adapter for ILM	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution	
Hyb Blocker	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution	
Hyb Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large	
Hyb Enhancer	quantities. 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	
2X Amplification Mastermix	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
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	
Capture Beads	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
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).	
r containment and cleaning up		

6.3 Methods and material for containment and cleaning up		
Methods for cleaning up	: Nuclease-Free Water	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	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.
Resuspension Buffer	Stop leak if without risk. Move containers from spill area.
	Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and
	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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
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
Hyb Blocker	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
Hyb Buffer	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.
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.
2X Amplification Mastermix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively,
	or if water-insoluble, absorb with an inert dry material and
	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Library Binding Beads	Stop leak if without risk. Move containers from spill area.

## **SECTION 6: Accidental release measures**

		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	Stop leak if without risk. Move containers from spill area.
	17-24	Dilute with water and mop up if water-soluble. Alternatively,
		or if water-insoluble, absorb with an inert dry material and
		place in an appropriate waste disposal container. Dispose
		of via a licensed waste disposal contractor.
	Index Primer Mix for ILM	Stop leak if without risk. Move containers from spill area.
	25-32	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 :	See Section 1 for emerger	new contact information
		tion on appropriate personal protective equipment.
56010115		nal waste treatment information.
	See Section 13 101 adultio	

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

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Protective measures	: Nuclease-Free Water	Put on appropriate personal protective equipment (see Section 8).
	Library Wash Buffer	Put on appropriate personal protective equipment (see Section 8).
	Hyb Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	Hyb Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
	Resuspension Buffer	Put on appropriate personal protective equipment (see Section 8).
	End Prep Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	End Prep Enzyme	Put on appropriate personal protective equipment (see Section 8).
	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

## **SECTION 7: Handling and storage**

	Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	<ul> <li>container.</li> <li>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.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> </ul>
Advice on general occupational hygiene	: Nuclease-Free Water 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. Eating, drinking and smoking should be prohibited in areas
	Hyb Wash Buffer 1	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. 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,
	Hyb Wash Buffer 2	drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also
	Resuspension Buffer	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.
	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 7: Handling and storage**

J · · · · · J ·	
Ligation Buffer	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 emploing.
Ligation Enzyme	drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also
Adapter for ILM	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
Hyb Blocker	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
Hyb Buffer	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
Hyb Enhancer	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
2X Amplification Mastermix	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
Library Binding Beads	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
Capture Beads	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
Index Primer Mix for ILM 17-24	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
Index Primer Mix for ILM 25-32	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,

## **SECTION 7: Handling and storage**

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

# **SECTION 7: Handling and storage**

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

## **SECTION 7: Handling and storage**

	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 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 Binding Beads	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Capture Beads	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Index Primer Mix for ILM 17-24	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Index Primer Mix for ILM 25-32	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

## **SECTION 7: Handling and storage**

•		Notification and MAPP threshold	Safety report threshold
	Hyb Buffer H3	50 tonne	200 tonne

#### 7.3 Specific end use(s)

Recommendations	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific	: Nuclease-Free Water	Not available.
solutions	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	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.
	2X Amplification Mastermix	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** 

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

Product/ingredient name	Exposure limit values
End Prep Enzyme	
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: mist
Ligation Enzyme	
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist
Hyb Enhancer	
Formamide	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 ppm 8 hours. OELV: 18 mg/m <sup>3</sup> 8 hours.
2X Amplification Mastermix	
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist

#### **Biological exposure indices**

No exposure indices known.

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

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
End Prep Buffer Magnesium chloride	DNEL	Long term Oral	7 mg/kg	General	Systemic
	DINEL		bw/day	population	Oysternic
Hyb Buffer					
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
Hyb Enhancer					
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

#### **PNECs**

No PNECs available

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

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 meas	ures
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		
Physical state	: Nuclease-Free Water Liqu Library Wash Buffer Liqu Hyb Wash Buffer 1 Liqu Hyb Wash Buffer 2 Liqu Resuspension Buffer Liqu End Prep Buffer Liqu End Prep Enzyme Liqu Ligation Buffer Liqu Adapter for ILM Liqu Hyb Blocker Liqu Hyb Buffer Liqu Hyb Enhancer Liqu 2X Amplification Liqu Mastermix Library Binding Beads Liqu Capture Beads Liqu	iid. iid. iid. iid. iid. iid. iid. iid.

### **SECTION 9: Physical and chemical properties**

		· · · · · · · · ·	
		Index Primer Mix for ILM	Liquid.
		17-24 Index Primer Mix for ILM 25-32	Liquid.
Colour		Nuclease-Free Water	Colourless.
Colour		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	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.
		2X Amplification	Not available.
		Mastermix	
		Library Binding Beads	Not available.
		Capture Beads	Not available.
		Index Primer Mix for ILM	Not available.
		17-24	
		Index Primer Mix for ILM 25-32	Not available.
Odour		Nuclease-Free Water	Odourless.
		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	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.
		2X Amplification Mastermix	Not available.
		Library Binding Beads	Not available.
		Capture Beads	Not available.
		Index Primer Mix for ILM	Not available.
		Index Primer Mix for ILM	Not available.
		25-32	Not available.
Odour threshold	:	Nuclease-Free Water	Not available.
		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	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.
		2X Amplification	Not available.
		Mastermix	
		Library Binding Beads	Not available.
		Capture Beads	Not available.

### **SECTION 9: Physical and chemical properties**

<b>,,</b>	i and chemical pro	
	Index Primer Mix for ILM 17-24	Not available.
	Index Primer Mix for ILM 25-32	Not available.
Melting point/freezing	: Nuclease-Free Water	0°C
		Not available.
point	Library Wash Buffer	
	Hyb Wash Buffer 1	0°C
	Hyb Wash Buffer 2	0°C
	Resuspension Buffer	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.
	2X Amplification	Not available.
	Mastermix	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	0°C
	17-24	
	Index Primer Mix for ILM 25-32	0°C
Initial boiling point and	: Nuclease-Free Water	100°C
boiling range	Library Wash Buffer	Not available.
	Hyb Ŵash Buffer 1	100°C
	Hyb Wash Buffer 2	100°C
	Resuspension Buffer	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.
	2X Amplification	Not available.
	Mastermix	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	100°C
	17-24	
	Index Primer Mix for ILM 25-32	100°C
Flammability	: Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	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.
	2X Amplification	Not applicable.
	Mastermix Library Binding Boads	Not applicable
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM	Not applicable.

### **SECTION 9: Physical and chemical properties**

		17.01	
		17-24 Index Primer Mix for ILM 25-32	Not applicable.
Upper/lower flammability or explosive limits	:	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	Not available. Not available.

**Flash point** 

Date of issue/Date of revision

	Clo	osed cup	Open cup	
Ingredient name	°C	Method	°C	Method
Library Wash Buffer				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
End Prep Enzyme				
glycerol	-	-	177	-
Ligation Buffer				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
Ligation Enzyme				
glycerol	-	-	177	-
Hyb Enhancer				
formamide	150	-	152	DIN EN ISO 2592
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
2X Amplification Mastermix				
glycerol	-	-	177	-
Library Binding Beads				
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	Poly(oxy-1,2-ethanediyl),α-hydro hydroxy- Ethane-1,2-diol, ethoxy		- 199 to - 238	
Auto-ignition	: Ingredient name	<b>°C</b>	Method	
emperature	Library Wash Buffer			
	Poly(oxy-1,2-ethanediyl),α-hydro Ethane-1,2-diol, ethoxylated	-ω-hydroxy- 360	-	
	End Prep Enzyme			
	glycerol	370	-	
	Ligation Buffer			
	Poly(oxy-1,2-ethanediyl),α-hydro Ethane-1,2-diol, ethoxylated	-ω-hydroxy- 360	-	
	Ligation Enzyme			
	glycerol	370	-	
	Hyb Enhancer			
	Poly(oxy-1,2-ethanediyl),α-hydro Ethane-1,2-diol, ethoxylated	-ω-hydroxy- 360	-	
	formamide	>50	0 ASTM D 2155-0	66
	2X Amplification Mastermix			
	glycerol	370	-	
	Library Binding Beads			
	Poly(oxy-1,2-ethanediyl),α-hydro Ethane-1,2-diol, ethoxylated		-	
Decomposition temperature	Library Wash Buffer Not av Hyb Wash Buffer 1 Not av Hyb Wash Buffer 2 Not av Resuspension Buffer Not av End Prep Buffer Not av End Prep Enzyme Not av Ligation Buffer Not av Ligation Enzyme Not av Adapter for ILM Not av Hyb Blocker Not av Hyb Buffer Not av Hyb Enhancer Not av 2X Amplification Not av Mastermix Library Binding Beads Not av	railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable. railable.		

### SECTION 9. Physical and chemical properties

### **SECTION 9: Physical and chemical properties**

рН	Nuclease-Free Water	7	
	Library Wash Buffer	Not available.	
	Hyb Wash Buffer 1	7.2 to 7.6	
	Hyb Wash Buffer 2	7.2 to 7.6	
	Resuspension Buffer	8	
	End Prep Buffer	8	
	End Prep Enzyme Ligation Buffer	7.5 8	
	Ligation Enzyme	7.5	
	Adapter for ILM	8	
	Hyb Blocker	8	
	Hyb Buffer	7.5	
	Hyb Enhancer	Not available.	
	2X Amplification	Not available.	
	Mastermix	0	
	Library Binding Beads	8 Not ovailable	
	Capture Beads Index Primer Mix for ILM	Not available. 8	
	17-24	0	
	Index Primer Mix for ILM 25-32	8	
Viscosity	Nuclease-Free Water	Not available.	
	Library Wash Buffer	Not available.	
	Hyb Wash Buffer 1	Not available.	
	Hyb Wash Buffer 2	Not available.	
	Resuspension Buffer	Not available.	
	End Prep Buffer	Not available.	
	End Prep Enzyme Ligation Buffer	Not available. Not available.	
	Ligation Enzyme	Not available.	
	Adapter for ILM	Not available.	
	Hyb <sup>·</sup> Blocker	Not available.	
	Hyb Buffer	Not available.	
	Hyb Enhancer	Not available.	
	2X Amplification	Not available.	
	Mastermix	Not available.	
	Library Binding Beads Capture Beads	Not available.	
	Index Primer Mix for ILM		
	17-24		
	Index Primer Mix for ILM 25-32	Not available.	
Solubility(ies)	: Media		Result
	Nuclease-Free Water		
	water		Soluble
	Library Wash Buffer		
	water		Soluble
	Hyb Wash Buffer 1		
	water		Soluble
	Hyb Wash Buffer 2 water		Soluble
	Resuspension Buffer		Soluble
	water		Soluble
	End Prep Buffer		
	water		Soluble
	End Prep Enzyme		
	water		Soluble
	Ligation Buffer		
	water		Soluble
	Ligation Enzyme		C - huhla
	water		Soluble
	Adapter for ILM water		Soluble
Date of issue/Date of revision	: 11/04/2024 Date of previou	s issue : 23/02/2024	Version : 1.1 43/63

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	Hyb Blocker	
	water	Soluble
	Hyb Buffer	
	water	Soluble
	Hyb Enhancer	
	water	Soluble
	Library Binding Beads	
	water	Soluble
	Capture Beads	
	water	Soluble
	Index Primer Mix for ILN	
	water	Soluble
	Index Primer Mix for ILN	
	water	Soluble
Partition coefficient: n-	: Nuclease-Free Water	-1.38
octanol/water	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	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.
	2X Amplification	Not applicable.
	Mastermix	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM	Not applicable.
	17-24	
	Index Primer Mix for ILM 25-32	Not applicable.
Vapour pressure	essure : Nuclease-Free Water 2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C]	

	Vapour	Pressure	e at 20°C	Vap	oour pre	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Library Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.000003	0.0000004	-	-	-	-
Hyb Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
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 and chemical p				1		1
Resuspension Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer						
water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Adapter for ILM						
water	17.5	2.3	-	92.258	12.3	-
Hyb Blocker						
water	17.5	2.3	-	92.258	12.3	-

ľ	water	17.5	2.3	-	92.258	12.3	-
	Hyb Blocker						
١	water	17.5	2.3	-	92.258	12.3	-
1	Hyb Buffer						
١	water	17.5	2.3	-	92.258	12.3	-
	tetramethylammonium chloride	0.000000001	0.00000000013	EU A.4	-	-	-
1	Hyb Enhancer						
f	formamide	0.045	0.006	-	-	-	-
ł	Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.0000004	-	-	-	-
	2X Amplification Mastermix						
ę	glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Library Binding Beads						
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SECTION 9: Physical and chemical properties							
	water	17.5	2.3	-	92.258	12.3	-
	Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.000000	3 0.0000004	-	-	-	-
	Capture Beads						
	water	17.5	2.3	-	92.258	12.3	-
	Index Primer Mix for ILM 17-24						
	water	17.5	2.3	-	92.258	12.3	-
	Index Primer Mix for ILM 25-32						
Evaporation rate	water	17.5	2.3 t available	-	92.258	12.3	-
Polotivo donoity	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for I 17-24 Index Primer Mix for I 25-32	No No No No No No No No No No No No No N	t available t available				
Relative density	: Nuclease-Free Water Library Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for I	No No No No No No No No No No No No No N	t available t available				

### **SECTION 9: Physical and chemical properties**

		17-24 Index Primer Mix for ILM 25-32	Not available.
Vapour density		Nuclease-Free Water	0.62 [Air = 1]
vapour actionly		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	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.
		2X Amplification	Not available.
		Mastermix	
		Library Binding Beads	Not available.
		Capture Beads	Not available.
		Index Primer Mix for ILM	Not available.
		17-24	
		Index Primer Mix for ILM 25-32	Not available.
Explosive properties	1	Nuclease-Free Water	Not available.
		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	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.
			Not available.
		Hyb Buffer	
		Hyb Enhancer	Not available.
		2X Amplification Mastermix	Not available.
			Not available.
		Library Binding Beads	
		Capture Beads	Not available.
		Index Primer Mix for ILM 17-24	Not available.
		Index Primer Mix for ILM 25-32	Not available.
Ovidicing properties	1.	Nuclease-Free Water	Not available.
Oxidising properties	1		
		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	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.
		2X Amplification	Not available.
		Mastermix Library Binding Beads	Not available.
		Capture Beads	Not available.
		Index Primer Mix for ILM	Not available.

### **SECTION 9: Physical and chemical properties**

17-24 Index Primer Mix for ILM Not available. 25-32

Particle characteristics		
Median particle size	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	Not applicable. Not applicable.

#### 9.2 Other information

No additional information.

### SECTION 10: Stability and reactivity

0.1 Reactivity	: Nuclease-Free Water	No specific test data related to reactivity available for this product or its ingredients.
	Library Wash Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Hyb Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
	Hyb Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
	Resuspension Buffer	No specific test data related to reactivity available for this product or its ingredients.
	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.
	2X Amplification Mastermix	No specific test data related to reactivity available for this product or its ingredients.
	Library Binding Beads	No specific test data related to reactivity available for this product or its ingredients.
	Capture Beads	No specific test data related to reactivity available for this product or its ingredients.

### **SECTION 10: Stability and reactivity**

	ndex Primer Mix for ILM No specific test data related product or its ingredients.	to reactivity available for this
	ndex Primer Mix for ILM No specific test data related product or its ingredients.	to reactivity available for this
10.2 Chemical stability	Nuclease-Free Water Library Wash BufferThe product is stable. The product is stable. The product is stable. 	
10.3 Possibility of hazardous reactions	reactions will not occur.	storage and use, hazardous
	reactions will not occur.	storage and use, hazardous
	Hyb Wash Buffer 1Under normal conditions of reactions will not occur.	storage and use, hazardous
	Hyb Wash Buffer 2 Under normal conditions of reactions will not occur.	storage and use, hazardous
	Resuspension Buffer Under normal conditions of reactions will not occur.	storage and use, hazardous
		storage and use, hazardous
	2X Amplification Under normal conditions of	storage and use, hazardous
		storage and use, hazardous
	•	storage and use, hazardous
		storage and use, hazardous
	7-24 reactions will not occur. ndex Primer Mix for ILM Under normal conditions of	storage and use, hazardous
	reactions will not occur.	

### **SECTION 10: Stability and reactivity**

10.4 Conditions to avoid	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	
10.5 Incompatible materials	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	<ul> <li>Nuclease-Free Water</li> <li>Library Wash Buffer</li> <li>Hyb Wash Buffer 1</li> <li>Hyb Wash Buffer 2</li> <li>Resuspension Buffer</li> <li>End Prep Buffer</li> <li>End Prep Enzyme</li> <li>Ligation Buffer</li> <li>Ligation Enzyme</li> </ul>	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 10: Stability and reactivity**

Adapter for ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Blocker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Enhancer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
2X Amplification	Under normal conditions of storage and use, hazardous
Mastermix	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	Under normal conditions of storage and use, hazardous
25-32	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
End Prep Buffer				
Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
Hyb Buffer				
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/k	g -
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium	LD50 Oral	Rat	20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), . alpha[	LD50 Oral	Rat	2800 mg/kg	-
(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
Hyb Enhancer				
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	-

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
End Prep Buffer					
Magnesium chloride	2800	N/A	N/A	N/A	N/A
Hyb Buffer					
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[	500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					
Hyb Enhancer					
Formamide	5570	17000	N/A	N/A	N/A

### **SECTION 11: Toxicological information**

### 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]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
<u>Sensitiser</u>					
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.				

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

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

### Specific target organ toxicity (repeated exposure)

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

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	Not available. Not available. Not available. Not available. Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Not available. Not available. Not available. Not available.
Potential acute health eff	<u>ects</u>	

### **SECTION 11: Toxicological information**

Inhalation	: Nuclease-Free Water	No known significant effects or	critical hazards.
	Library Wash Buffer	No known significant effects or	
	Hyb Wash Buffer 1	No known significant effects or	
	Hyb Wash Buffer 2	No known significant effects or	
	Resuspension Buffer	No known significant effects or	
	End Prep Buffer	No known significant effects or	
	End Prep Enzyme	No known significant effects or	
	Ligation Buffer	No known significant effects or	
	Ligation Enzyme	No known significant effects or	
	<b>o</b>		
	Adapter for ILM	No known significant effects or	
	Hyb Blocker	No known significant effects or	
	Hyb Buffer	Causes damage to organs follo inhaled.	
	Hyb Enhancer 2X Amplification	No known significant effects or No known significant effects or	
	Mastermix		
	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		
Ingestion	: Nuclease-Free Water	No known significant effects or	
	Library Wash Buffer	No known significant effects or	
	Hyb Wash Buffer 1	No known significant effects or	
	Hyb Wash Buffer 2	No known significant effects or	
	Resuspension Buffer	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	
	Adapter for ILM	No known significant effects or	
	Hyb Blocker	No known significant effects or	
	Hyb Buffer	Harmful if swallowed. Causes	
	ligo Danoi	single exposure if swallowed.	aamage te ergane tenetinig a
	Hyb Enhancer	No known significant effects or	critical bazards
	2X Amplification	No known significant effects or	
	Mastermix	No known significant effects of	chillear hazarus.
	Library Binding Beads	No known significant effects or	critical hazards.
	Capture Beads	No known significant effects or	
	Index Primer Mix for ILM 17-24	No known significant effects or	
	Index Primer Mix for ILM 25-32	No known significant effects or	critical hazards.
Skin contact	: Nuclease-Free Water	No known significant effects or	critical bazards
Skill contact			
	Library Wash Buffer	No known significant effects or	
	Hyb Wash Buffer 1	No known significant effects or	
	Hyb Wash Buffer 2	No known significant effects or	
	Resuspension Buffer	No known significant effects or	
	End Prep Buffer	No known significant effects or	
	End Prep Enzyme	No known significant effects or	
	Ligation Buffer	No known significant effects or	
	Ligation Enzyme	No known significant effects or	
	Adapter for ILM	No known significant effects or	
	Hyb Blocker	No known significant effects or	critical hazards.
	Hyb Buffer	Causes damage to organs follo	owing a single exposure in
		contact with skin. Causes skin	irritation.
	Hyb Enhancer	No known significant effects or	critical hazards.
	2X Amplification	No known significant effects or	
	Mastermix		
	Library Binding Beads	No known significant effects or	critical hazards
	Capture Beads	No known significant effects or	
	Index Primer Mix for ILM	No known significant effects or	
	17-24	No known signilioant eneots of	
Date of issue/Date of revision	: 11/04/2024 Date of previous	s issue : 23/02/2024	Version : 1.1 53/63

### **SECTION 11: Toxicological information**

	J	
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
Eye contact :	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24	No known significant effects or critical hazards. 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 phy	<u>sical, chemical and toxicon</u>	ological characteristics
Inhalation :	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM	No specific data. No specific data. 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. No specific data.
Ingestion :	25-32 Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	No specific data. No specific data.

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	5	
		skeletal malformations
	2X Amplification	No specific data.
	Mastermix	I
		No anasifia data
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM	No specific data.
	17-24	
	Index Primer Mix for ILM	No specific data.
	25-32	
<b>.</b>		
Skin contact	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	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:
	Tiyb Duller	
		irritation
		redness
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2V Amplification	
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM	No specific data.
	17-24	
	Index Primer Mix for ILM	No specific data.
		No specific data.
	25-32	
Eye contact	: Nuclease-Free Water	No specific data.
-	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	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:
		pain or irritation
		watering
		redness
	Hyb Enhancer	No specific data.
		•
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM	No specific data.
	17-24	
	Index Primer Mix for ILM	No specific data.
		ino specilio dala.
	25-32	
Delayed and immediate effe	ects as well as chronic effe	cts from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate	: Not available.	
effects		
Data afterne /Data af verifitar	. 44/04/0004 Dete of music	

### **SECTION 11: Toxicological information**

	<u> </u>	
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.	
		No known aignificant offacto ar aritical bazarda
General	<ul> <li>Nuclease-Free Water Library Wash Buffer</li> <li>Hyb Wash Buffer 1</li> <li>Hyb Wash Buffer 2</li> <li>Resuspension Buffer</li> <li>End Prep Buffer</li> <li>End Prep Enzyme</li> <li>Ligation Buffer</li> <li>Ligation Enzyme</li> <li>Adapter for ILM</li> <li>Hyb Blocker</li> <li>Hyb Buffer</li> <li>Hyb Enhancer</li> <li>2X Amplification</li> <li>Mastermix</li> <li>Library Binding Beads</li> <li>Capture Beads</li> <li>Index Primer Mix for ILM</li> <li>17-24</li> <li>Index Primer Mix for ILM</li> <li>25-32</li> </ul>	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	<ul> <li>Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer</li> <li>2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32</li> </ul>	No known significant effects or critical hazards. No known significant effects or critical hazards. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.

### **SECTION 11: Toxicological information**

	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.
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	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	
Reproductive toxicity	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Ŵash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	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.
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	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	

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### **11.2.2 Other information**

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

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus	72 hours
Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus	70 hours
	subspicatus	12 nours
Acute EC50 180000 μg/l Fresh water	Crustaceans - Eudiaptomus padanus ssp. padanus - Adult	48 hours
Acute IC50 6.8 mg/l Fresh water	Aquatic plants - <i>Lemna</i> aeguinoctialis	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 - Pimephales promelas	96 hours
Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
~ ~ ~ ~	cute IC50 6.8 mg/l Fresh water cute LC50 32000 µg/l Fresh water cute LC50 2120 mg/l Fresh water cute NOEC 100 mg/l Fresh water	cute IC50 6.8 mg/l Fresh waterpadanus ssp. padanus - Adultcute IC50 32000 µg/l Fresh waterAquatic plants - Lemna aequinoctialiscute LC50 32000 µg/l Fresh waterDaphnia - Daphnia hyalina - Adultcute LC50 2120 mg/l Fresh waterFish - Pimephales promelas Algae - Desmodesmus subspicatushronic NOEC 0.1 mg/l Fresh waterFish - Cyprinus carpio

# **SECTION 12: Ecological information**

Hyb Buffer			
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Poly(oxy-1,2-ethanediyl), . alpha[	Acute EC50 210 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			
	Acute LC50 10800 μg/l Marine water	Crustaceans - <i>Pandalus</i> <i>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 - Oncorhynchus mykiss	96 hours
Hyb Enhancer			
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

#### 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		adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Nuclease-Free Water water	-		-		Readily	
<b>Hyb Buffer</b> tetramethylammonium chloride	-		-		Readily	
<b>Hyb Enhancer</b> Formamide	-		-		Readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	Low
Hyb Buffer tetramethylammonium chloride Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	<-1.6 2.7	- 78.67	Low Low
<b>Hyb Enhancer</b> Formamide	-0.82	-	Low

### 12.4 Mobility in soil

### **SECTION 12: Ecological information**

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Nuclease-Free Water water	Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

13.1 Waste treatment met	hods
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.
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

### **SECTION 14: Transport information**

# 14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

: Not available.

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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

Annex XIV

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

#### 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

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

Product / Ingredient nan	ne	Identifiers	Designation [Usage]
End Prep Buffer End Prep Buffer			3
<b>Hyb Buffer</b> Hyb Buffer			3
<b>Hyb Enhancer</b> Hyb Enhancer Formamide			3 30 30
Label	: Nuclease-Free Wa Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buff End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	er Not appl 1 Not appl 2 Not appl fer Not appl Not appl Not appl Not appl Not appl Not appl Not appl Not appl Not appl Not appl	icable. icable. icable. icable. icable. icable. icable. icable. icable. icable. icable.

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### SECTION 15: Regulatory information

2X Amplification Mastermix	Not applicable.
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	

#### **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**

Category	
Hyb Buffer	
H3	

#### **National regulations**

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

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

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

Not listed.

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

Not listed.

### **Inventory list**

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.

Date of issue/Date of revision

Date of previous issue : 11/04/2024

### **SECTION 15: Regulatory information**

-	-
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.
15.2 Chomical safety	This product contains substances for which Chemical Safety Assessments might still

# **15.2 Chemical safety**<br/>assessment: This product contains substances for which Chemical Safety Assessments might still<br/>be required.

### **SECTION 16: Other information**

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

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

Classification	Justification
End Prep Buffer Aquatic Chronic 3, H412	Calculation method
Hyb Buffer 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 Repr. 1B, H360 STOT RE 2, H373	Calculation method Calculation method Calculation method

#### Full text of abbreviated H statements

<b>End Prep Buffer</b> H410 H412	Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
Hyb Buffer	
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Hyb Enhancer	
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated

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SECTION 16: Other information				
		exposure.		
Full text of classifications	s [CLP/GHS]			
End Prep Buffer				
Aquatic Chronic 1 Aquatic Chronic 3		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Hyb Buffer 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 2 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		
Date of issue/ Date of revision	: 11/04/2024			
Date of previous issue	: 23/02/2024			
Version	: 1.1			

#### Notice to reader

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