Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

SAFETY DATA SHEET



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

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

1.1 Product identifier

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

UK (GB) REACH Registration number

Registration number		Legal entity		
Nuclease-Free Water Exempt from REACH: Ac of Article 2(7)(a) and Ann		-		
CAS number	: Nuclease-Free Water	7732-18-5		
CAS humber	End Prep Buffer	Not applicable.		
	End Prep Enzyme	Not applicable.		
	Ligation Buffer	Not applicable.		
	Ligation Enzyme	Not applicable.		
	Adapter for ILM	Not applicable.		
	Hyb Blocker	Not applicable.		
	Hyb Buffer	Not applicable.		
	Hyb Enhancer	Not applicable.		
	Soft Conversion Reagent A	Not applicable.		
	2X Methyl Amplificatio Mastermix	n Not applicable.		
	Library Wash Buffer	Not applicable.		
	Hyb Wash Buffer 1	Not applicable.		
	Hyb Wash Buffer 2	Not applicable.		
	Soft Conversion Reagent B	Not applicable.		
	Soft Conversion Bindir Beads	ng Not applicable.		
	5X Soft Conversion Wash Buffer	Not applicable.		
	Soft Conversion Elutio Buffer	n Not applicable.		
	Soft Conversion Repa Solution	ir Not applicable.		
	Library Binding Beads	Not applicable.		
	Capture Beads Index Primer Mix for IL	Not applicable. M Not applicable.		
	17-24 Index Primer Mix for IL 25-32	M Not applicable.		
Part no. (chemical kit)	: G9419B			
Part no.	: <u>Avida Methyl Reagent</u> <u>Avida Methyl and Duo</u>		<u>5282-0147/5282-0149</u>	
	Reactions		5074 0407	
	Nuclease-Free Water	Pay 1 16 Departiens	5271-0107	
	<u>Avida Methyl Reagent</u> End Prep Buffer	DOX 1, 10 Reactions	<u>5282-0145</u> 5271-0094	
	End Prep Enzyme		5271-0095	
	Ligation Buffer		5271-0096	
	Ligation Enzyme		5271-0097	
	Adapter for ILM		5271-0112	
	Hyb Blocker		5271-0099	
	Hyb Buffer		5271-0100	
	Hyb Enhancer		5271-0101	
	Soft Conversion Reag 2X Methyl Amplificatio		5271-0110 5271-0111	
ate of issue/Date of revision	: 08/04/2024 Date of prev		2024 Version : 1.1	1/8

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

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

Avida Methyl Reagent Box 2, 16 Reactions	<u>5282-0147</u>
Library Wash Buffer	5271-0103
Hyb Wash Buffer 1	5271-0104
Hyb Wash Buffer 2	5271-0105
Avida Methyl and Duo Reagent Box 3, 16	<u>5282-0149</u>
<u>Reactions</u>	
Soft Conversion Reagent B	5271-0113
Soft Conversion Binding Beads	5271-0114
5X Soft Conversion Wash Buffer	5271-0115
Soft Conversion Elution Buffer	5271-0116
Soft Conversion Repair Solution	5271-0117
Avida Beads Box, 16 Reactions	<u>5282-0143</u>
Library Binding Beads	5271-0108
Capture Beads	5271-0109
Avida Index Primer Pairs 17-32 for ILM	<u>5280-0053</u>
Index Primer Mix for ILM 17-24	5274-0077
Index Primer Mix for ILM 25-32	5274-0078

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

Identified uses	: Analytical reagent. For research use only.	
	Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	

1.3

Agilent Technologies LDA U 5500 Lakeside Cheadle Roy Cheadle, Cheshire, SK8 3G United Kingdom Tel: +44 (0) 345 712 5292	/al Business Park,
e-mail address of person responsible for this SDS	: pdl-msds_author@agilent.com
1.4 Emergency telephone n	umber
Emergency telephone number (with hours of operation)	: CHEMTREC®: +(44)-870-8200418

0.124 ml (16 reactions) 0.053 ml (16 reactions) 0.44 ml (16 reactions) 0.106 ml (16 reactions) 0.088 ml (16 reactions) 0.044 ml (16 reactions) 0.81 ml (16 reactions) 0.132 ml (16 reactions) 0.062 ml (16 reactions) 0.440 ml (16 reactions) 6.336 ml (16 reactions) 5.280 ml (16 reactions) 2.64 ml (16 reactions) 2 x 0.750 ml 2.640 ml (16 reactions) 2 ml (16 reactions) 0.264 ml (16 reactions) 0.088 ml (16 reactions) 1.532 ml (16 reactions) 0.141 ml (16 reactions) 8 x 0.005 ml 8 x 0.005 ml

0.88 ml (16 reactions)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) Avida Methyl Reagent Kit with 17-32 Index Primer Pairs for ILM, 16 Reactions, Part Number G9419B

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

2.1 Classification of the	substance or mixture			
Product definition	: Nuclease-Free Water	Mono-constituent substance		
	End Prep Buffer	Mixture		
	End Prep Enzyme	Mixture		
	Ligation Buffer	Mixture		
	Ligation Enzyme	Mixture		
	Adapter for ILM	Mixture		
	Hyb Blocker	Mixture		
	Hyb Buffer	Mixture		
	Hyb Enhancer	Mixture		
	Soft Conversion	Mixture		
	Reagent A	Mixture		
	2X Methyl Amplification	Mixture		
	Mastermix	Mixture		
	Library Wash Buffer	Mixture		
	Hyb Wash Buffer 1	Mixture		
	Hyb Wash Buffer 2	Mixture		
	Soft Conversion	Mixture		
	Reagent B	MIXICIE		
		Mixturo		
	Soft Conversion Binding Beads	Mixture		
		Missterne		
	5X Soft Conversion	Mixture		
	Wash Buffer	D dia sharan		
	Soft Conversion Elution	Mixture		
	Buffer	D dia sharan		
	Soft Conversion Repair	Mixture		
	Solution			
	Library Binding Beads	Mixture		
	Capture Beads	Mixture		
	Index Primer Mix for ILM	Mixture		
	17-24			
	Index Primer Mix for ILM 25-32	Mixture		
Classification accordi	ng to Regulation (EC) No. 1272/	2008 [CL P/GHS]		
End Prep Buffer				
H412	LONG-TERM (CHRONIC) AQU		Category 3	
11412			Calegory 5	
Hyb Buffer				
			Category 4	
H302	ACUTE TOXICITY (oral) SKIN CORROSION/IRRITATIO	NI	0,	
H315			Category 2	
H370		OXICITY - SINGLE EXPOSURE	Category 1	
H412	LONG-TERM (CHRONIC) AQU		Category 3	
Uvh Enhansar				
Hyb Enhancer			Cata are to 0	
H351	CARCINOGENICITY		Category 2	
H360	REPRODUCTIVE TOXICITY		Category 1B	
H373	SPECIFIC TARGET ORGAN TO	OXICITY - REPEATED	Category 2	
	EXPOSURE			
o " o				
Soft Conversion				
Reagent A				
H319	SERIOUS EYE DAMAGE/EYE	IRRITATION	Category 2	
H360FD	REPRODUCTIVE TOXICITY		Category 1B	
Soft Conversion				
Reagent B				
H319	SERIOUS EYE DAMAGE/EYE	IRRITATION	Category 2	
Dete efferme (Dete effermini			Version	
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Soft Conversion			
Binding Beads			
H226	FLAMMABLE LIQUID		Category 3
H314	SKIN CORROSION/IF		Category 1C
H400		FE) AQUATIC HAZARD	Category 1
H411	LONG-TERM (CHRO	NIC) AQUATIC HAZARD	Category 2
Soft Conversion			
Elution Buffer			
H314	SKIN CORROSION/IF	RRITATION	Category 1
Nuclease-Free Water		The product is not classified as hazardou	is according to UK CLP
		Regulation SI 2019/720 as amended.	
End Prep Buffer		The product is classified as hazardous a	ccording to UK CLP
		Regulation SI 2019/720 as amended.	
End Prep Enzyme		The product is not classified as hazardou	is according to UK CLP
		Regulation SI 2019/720 as amended.	
Ligation Buffer		The product is not classified as hazardou	is according to UK CLP
		Regulation SI 2019/720 as amended.	
Ligation Enzyme		The product is not classified as hazardou	is according to UK CLP
		Regulation SI 2019/720 as amended.	
Adapter for ILM		The product is not classified as hazardou	is according to UK CLP
Linda Disalaan		Regulation SI 2019/720 as amended.	
Hyb Blocker		The product is not classified as hazardou	is according to UK CLP
Hub Duffer		Regulation SI 2019/720 as amended.	poording to LIK CLD
Hyb Buffer		The product is classified as hazardous a Regulation SI 2019/720 as amended.	Cording to UK CLP
Hyb Enhancer		The product is classified as hazardous a	cording to LIK CLP
		Regulation SI 2019/720 as amended.	Colding to OK CEP
Soft Conversion Reage	nt A	The product is classified as hazardous a	cording to UK CLP
Cont Conversion Reage		Regulation SI 2019/720 as amended.	
2X Methyl Amplification	Mastermix	The product is not classified as hazardou	is according to UK CLP
_, (mea), , , , , , , , , , , , , , , , , , ,	mactorini	Regulation SI 2019/720 as amended.	
Library Wash Buffer		The product is not classified as hazardou	is according to UK CLP
,		Regulation SI 2019/720 as amended.	3
Hyb Wash Buffer 1		The product is not classified as hazardou	is according to UK CLP
2		Regulation SI 2019/720 as amended.	3
Hyb Wash Buffer 2		The product is not classified as hazardou	is according to UK CLP
		Regulation SI 2019/720 as amended.	
Soft Conversion Reage	nt B	The product is classified as hazardous a	ccording to UK CLP
		Regulation SI 2019/720 as amended.	
Soft Conversion Binding	g Beads	The product is classified as hazardous a	ccording to UK CLP
		Regulation SI 2019/720 as amended.	
5X Soft Conversion Wa	ish Buffer	The product is not classified as hazardou	is according to UK CLP
	- "	Regulation SI 2019/720 as amended.	
Soft Conversion Elution	n Buffer	The product is classified as hazardous a	ccording to UK CLP
		Regulation SI 2019/720 as amended.	
Soft Conversion Repair	Solution	The product is not classified as hazardou	is according to UK CLP
Likusus Dia dia a Dalada		Regulation SI 2019/720 as amended.	
Library Binding Beads		The product is not classified as hazardou	is according to UK CLP
Capture Boods		Regulation SI 2019/720 as amended.	is according to LIK OLD
Capture Beads		The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UN CLP
Index Primer Mix for ILI	M 17-24	The product is not classified as hazardou	is according to LIK CLP
	vi i <i>l =</i> ∠ ,	Regulation SI 2019/720 as amended.	is according to ON OLP
Index Primer Mix for ILI	M 25-32	The product is not classified as hazardou	is according to UK CLP
		Regulation SI 2019/720 as amended.	

Ingredients of unknown	1	End Prep Buffer	Percentage of the mixture consisting of ingredient(s) of
toxicity			unknown acute inhalation toxicity: 1 - 10%
		End Prep Enzyme	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Ligation Buffer	Percentage of the mixture consisting of ingredient(s) of
		Ligation Danoi	unknown acute inhalation toxicity: 30 - 60%
		Ligation Enzyme	Percentage of the mixture consisting of ingredient(s) of
		C	unknown acute inhalation toxicity: 30 - 60%
		Hyb Buffer	Percentage of the mixture consisting of ingredient(s) of
			unknown acute dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of
			unknown acute inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of
			unknown acute oral toxicity: 1 - 10%
		Hyb Enhancer	Percentage of the mixture consisting of ingredient(s) of
		,	unknown acute inhalation toxicity: 1 - 10%
		Soft Conversion Reagent A	Percentage of the mixture consisting of ingredient(s) of
			unknown acute dermal toxicity: > 60%
			Percentage of the mixture consisting of ingredient(s) of
		OX Mathud American	unknown acute inhalation toxicity: $> 60\%$
		2X Methyl Amplification Mastermix	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Masterinix	Percentage of the mixture consisting of ingredient(s) of
			unknown acute inhalation toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of
			unknown acute oral toxicity: 1 - 10%
		Library Wash Buffer	Percentage of the mixture consisting of ingredient(s) of
		Live Week Duffer 1	unknown acute inhalation toxicity: 10 - 30%
		Hyb Wash Buffer 1	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		Soft Conversion Reagent B	Percentage of the mixture consisting of ingredient(s) of
			unknown acute dermal toxicity: > 60%
			Percentage of the mixture consisting of ingredient(s) of
			unknown acute inhalation toxicity: > 60%
			Percentage of the mixture consisting of ingredient(s) of
		Soft Conversion Binding	unknown acute oral toxicity: > 60%
		Soft Conversion Binding Beads	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Deads	Percentage of the mixture consisting of ingredient(s) of
			unknown acute inhalation toxicity: 1 - 10%
		Soft Conversion Repair	Percentage of the mixture consisting of ingredient(s) of
		Solution	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	1	Hyb Buffer	Contains 3.4% of components with unknown hazards to the
ecotoxicity		OV Mothyd Amerikiastian	aquatic environment
		2X Methyl Amplification Mastermix	Contains 10% of components with unknown hazards to the aquatic environment
			Contains 70% of components with unknown hazards to the
		Con Conversion Reagent D	aquatic environment
See Section 16 for the full to		of the U statements dealers	•

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

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

2.2 Label elements

SECTION 2: Hazards identification : Hyb Buffer **Hazard pictograms** Hyb Enhancer Soft Conversion Reagent A Soft Conversion Reagent B Soft Conversion Binding Beads Soft Conversion Elution Buffer Signal word : Nuclease-Free Water No signal word. End Prep Buffer No signal word. End Prep Enzyme No signal word. Ligation Buffer No signal word. Ligation Enzyme No signal word. Adapter for ILM No signal word. Hyb Blocker No signal word. Hvb Buffer Danger Hvb Enhancer Danger Soft Conversion Danger Reagent A 2X Methyl Amplification No signal word. Mastermix Library Wash Buffer No signal word. Hyb Wash Buffer 1 No signal word. Hyb Wash Buffer 2 No signal word. Soft Conversion Warning Reagent B Soft Conversion Binding Danger Beads 5X Soft Conversion No signal word. Wash Buffer Soft Conversion Elution Danger Buffer Soft Conversion Repair No signal word. Solution Library Binding Beads No signal word. Capture Beads No signal word. Index Primer Mix for ILM No signal word. 17-24 Index Primer Mix for ILM No signal word. 25-32

Hazard statements	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	H412 - Harmful to aquatic life with long lasting effects.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Ligation Enzyme Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	H302 - Harmful if swallowed.
	Tiyb Dallel	H315 - Causes skin irritation.
		H370 - Causes damage to organs.
		H412 - Harmful to aquatic life with long lasting effects.
	Hyb Enhancer	H351 - Suspected of causing cancer.
		H360 - May damage fertility or the unborn child.
		H373 - May cause damage to organs through prolonged or
		repeated exposure.
	Soft Conversion	H319 - Causes serious eye irritation.
	Reagent A	,
		H360FD - May damage fertility. May damage the unborn child
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	5
	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.
	Soft Conversion	H319 - Causes serious eye irritation.
	Reagent B	, , , , , , , , , , , , , , , , , , ,
	Soft Conversion Binding Beads	H226 - Flammable liquid and vapour.
		H314 - Causes severe skin burns and eye damage.
		H410 - Very toxic to aquatic life with long lasting effects.
	5X Soft Conversion	No known significant effects or critical hazards.
	Wash Buffer	5
	Soft Conversion Elution Buffer	H314 - Causes severe skin burns and eye damage.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM	•
	17-24	,
		No known significant effects or critical hazards.
	25-32	
Precautionary statements		
Prevention	: Nuclease-Free Water	Not applicable.
	End Prep Buffer	P273 - Avoid release to the environment.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P280 - Wear protective gloves.
		P273 - Avoid release to the environment.
		P260 - Do not breathe vapour.
	Hyb Ephanaar	P270 - Do not eat, drink or smoke when using this product.
	Hyb Enhancer	P201 - Obtain special instructions before use.
		P280 - Wear protective gloves, protective clothing and eye or
		face protection.
	Soft Conversion	P260 - Do not breathe vapour.
	Soft Conversion	
	Soft Conversion Reagent A	P260 - Do not breathe vapour. P201 - Obtain special instructions before use.
		 P260 - Do not breathe vapour. P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or
	Reagent A	 P260 - Do not breathe vapour. P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection.
	Reagent A 2X Methyl Amplification	 P260 - Do not breathe vapour. P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or
	Reagent A	 P260 - Do not breathe vapour. P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection.

	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion	P280 - Wear eye or face protection.
	Reagent B	
	Soft Conversion Binding	P280 - Wear protective gloves, protective clothing and eye or
	Beads	face protection.
		P210 - Keep away from heat, hot surfaces, sparks, open
		flames and other ignition sources. No smoking.
		P273 - Avoid release to the environment.
	5X Soft Conversion	Not applicable.
	Wash Buffer	
	Soft Conversion Elution	P280 - Wear protective gloves, protective clothing and eye or
	Buffer	face protection.
	Soft Conversion Repair	Not applicable.
	Solution	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM	
	17-24	
	Index Primer Mix for ILM	Not applicable.
	25-32	
_		
Response	: Nuclease-Free Water	Not applicable.
	End Prep Buffer	Not applicable.
	•	
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P308 + P311 - IF exposed or concerned: Call a POISON
		•
		CENTER or doctor.
	Hyb Enhancer	P308 + P313 - IF exposed or concerned: Get medical advice
	,	or attention.
	Soft Conversion	P308 + P313 - IF exposed or concerned: Get medical advice
	Reagent A	or attention.
	Rougonerre	
		P305 + P351 + P338 - IF IN EYES: Rinse cautiously with
		water for several minutes. Remove contact lenses, if present
		and easy to do. Continue rinsing.
		P337 + P313 - If eye irritation persists: Get medical advice or
		attention.
	2X Methyl Amplification	Not applicable.
	•	Not applicable.
	Mastermix	
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with
		•
	Reagent B	water for several minutes. Remove contact lenses, if present
		and easy to do. Continue rinsing.
		P337 + P313 - If eye irritation persists: Get medical advice or
		attention.
	Soft Conversion Binding	P391 - Collect spillage.
	Beads	
	20000	D201 + D210 IF INHALED, Immediately call a DOISON
		P304 + P310 - IF INHALED: Immediately call a POISON
		CENTER or doctor.
	5X Soft Conversion	Not applicable.
	Wash Buffer	
	Soft Conversion Elution	P304 + P310 - IF INHALED: Immediately call a POISON
	Buffer	CENTER or doctor.
	Ballo	
		P301 + P310 - IF SWALLOWED: Immediately call a POISON
		CENTER or doctor.
		P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off
		immediately all contaminated clothing. Rinse skin with water.
		Immediately call a POISON CENTER or doctor.
	Soft Conversion Repair	Not applicable.
		not applicable.
	Solution	
		1
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SECTION 2. Hazaru		
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
Storage	: Nuclease-Free Water	Not applicable.
-	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion	Not applicable.
	Reagent A	
	2X Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion	Not applicable.
	Reagent B	
	Soft Conversion Binding Beads	
	5X Soft Conversion Wash Buffer	Not applicable.
	Soft Conversion Elution Buffer	Not applicable.
	Soft Conversion Repair Solution	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM	Not applicable.
	17-24 Index Primer Mix for ILM 25-32	Not applicable.
Disposal	: Nuclease-Free Water	Not applicable.
Diopodul	End Prep Buffer	P501 - Dispose of contents and container in accordance with
		all local, regional, national and international regulations.
	End Prep Enzyme	Not applicable. Not applicable.
	Ligation Buffer Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P501 - Dispose of contents and container in accordance with
	Tyb Duller	all local, regional, national and international regulations.
	Hyb Enhancer	P501 - Dispose of contents and container in accordance with
		all local, regional, national and international regulations.
	Soft Conversion	P501 - Dispose of contents and container in accordance with
	Reagent A	all local, regional, national and international regulations.
	2X Methyl Amplification	Not applicable.
	Mastermix	
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion	Not applicable.
	Reagent B	
	Soft Conversion Binding	
	Beads	all local, regional, national and international regulations.
	5X Soft Conversion	Not applicable.
	Wash Buffer	DE04 Disease of contract on the set of the little
	Soft Conversion Elution	P501 - Dispose of contents and container in accordance with
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SECTION 2: Hazards	dentification	
	Buffer Soft Conversion Repair Solution	all local, regional, national and international regulations. Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
Hazardous ingredients	: Hyb Buffer	tetramethylammonium chloride
	Hyb Enhancer	formamide
	Soft Conversion	tetrahydro-2-furyl-methanol
	Reagent A Soft Conversion Binding Beads	salts of thiocyanic acid and Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-
Supplemental label	: Nuclease-Free Water	Not applicable.
elements	End Prep Buffer	Not applicable.
	End Prep Enzyme	Safety data sheet available on request.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Safety data sheet available on request.
	Adapter for ILM Hyb Blocker	Not applicable. Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion	Not applicable.
	Reagent A	
	2X Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2 Soft Conversion	Not applicable.
	Reagent B	Not applicable.
	Soft Conversion Binding Beads	Corrosive to the respiratory tract.
	5X Soft Conversion Wash Buffer	Not applicable.
	Soft Conversion Elution Buffer	Not applicable.
	Soft Conversion Repair Solution	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads Index Primer Mix for ILM	Not applicable. Not applicable.
	17-24	
	Index Primer Mix for ILM 25-32	Not applicable.
Annex XVII - Restrictions	: Nuclease-Free Water	Not applicable.
on the manufacture,	End Prep Buffer	Not applicable.
placing on the market	End Prep Enzyme	Not applicable.
and use of certain	Ligation Buffer	Not applicable.
dangerous substances,	Ligation Enzyme	Not applicable.
mixtures and articles	Adapter for ILM Hyb Blocker	Not applicable. Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Restricted to professional users.
	Soft Conversion	Restricted to professional users.
	Reagent A 2X Methyl Amplification	Not applicable.
	Mastermix	Not application.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.

SECTION 2: Hazarus		
	Soft Conversion Reagent B	Not applicable.
	Soft Conversion Binding Beads	Not applicable.
	5X Soft Conversion Wash Buffer	Not applicable.
	Soft Conversion Elution Buffer	Not applicable.
	Soft Conversion Repair Solution	Not applicable.
	Library Binding Beads Capture Beads	Not applicable. Not applicable.
	Index Primer Mix for ILM 17-24	••
	Index Primer Mix for ILM 25-32	Not applicable.
Special packaging requirem		
	Nuclease-Free Water	Not applicable.
with child-resistant	End Prep Buffer	Not applicable.
fastenings	End Prep Enzyme	Not applicable.
-	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion	Not applicable.
	Reagent A 2X Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion	Not applicable.
	Reagent B Soft Conversion Binding Beads	Not applicable.
	5X Soft Conversion Wash Buffer	Not applicable.
	Soft Conversion Elution Buffer	Not applicable.
	Soft Conversion Repair Solution	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM 17-24	Not applicable.
	Index Primer Mix for ILM 25-32	Not applicable.
Tactile warning of	Nuclease-Free Water	Not applicable.
danger	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion	Not applicable.
	Reagent A 2X Methyl Amplification	Not applicable.
	Mastermix Library Wash Buffer	Not applicable.

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

2.3 Other hazards

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

:	PBT	Р	В	Т	vPvB	vP	vB
	Nuclease-						
	Free Water						
	Not	N/A	N/A	N/A	Not	N/A	N/A
	applicable		,, .	,, .	applicable		
	(Inorganic)				(Inorganic)		
	End Prep Buffe	r	This mixtu	ire does not	contain any	substances	that are
				to be a PBT			
	End Prep Enzyr	ne			contain any	substances	that are
				to be a PBT			
	Ligation Buffer				contain any	substances	that are
				to be a PBT			
	Ligation Enzym	е			contain any	substances	that are
	A			to be a PBT			414
	Adapter for ILM				contain any	substances	that are
	Livia Dia akan			to be a PBT		o uboto o o o	that are
	Hyb Blocker			to be a PBT	contain any	substances	linal are
	Llub Duffer					aubatanaaa	that are
	Hyb Buffer			to be a PBT	contain any	substances	linal are
	Hyb Enhancer				contain any	cubetancos	that are
	TIYD ETITIATICET			to be a PBT		Substances	lial ale
	Soft Conversior	,			contain any	substances	that are
	Reagent A	1		to be a PBT		Substances	lial ale
	2X Methyl Ampl	lification			contain any	substances	that are
	Mastermix	meation		to be a PBT		Substances	lialate
	Library Wash B	uffer			contain any	substances	that are
				to be a PBT		Substanties	that are
	Hyb Wash Buffe	⊃r 1			contain any	substances	that are
	nys waen ban	51 1		to be a PBT		ousolanooo	liataro
	Hyb Wash Buffe	er 2			contain any	substances	that are
				to be a PBT			
	Soft Conversion	า			contain any	substances	that are
	Reagent B			to be a PBT			
	Soft Conversior	n Binding			contain any	substances	that are
	Beads	0		to be a PBT			
	5X Soft Conversion	sion			contain any	substances	that are
	Wash Buffer			to be a PBT			
	Soft Conversion	n Elution	This mixtu	ire does not	contain any	substances	that are
	Buffer		assessed	to be a PBT	or a vPvB.		
	Soft Conversion	n Repair	This mixtu	ire does not	contain any	substances	that are
	Solution		assessed	to be a PBT	or a vPvB.		

	laonanoation			
	Library Binding Beads		re does not contain any substances that are	
		assessed	to be a PBT or a vPvB.	
	Capture Beads		ure does not contain any substances that are	
		assessed	to be a PBT or a vPvB.	
	Index Primer Mix for ILM	This mixtu	are does not contain any substances that are	
	17-24	assessed	to be a PBT or a vPvB.	
	Index Primer Mix for ILM	This mixtu	are does not contain any substances that are	
	25-32	assessed	to be a PBT or a vPvB.	
Other hazards which do :	Nuclease-Free Water	None kno	wn.	
not result in	End Prep Buffer	None kno	wn.	
classification	End Prep Enzyme	None kno	wn.	
	Ligation Buffer	None kno	wn.	
	Ligation Enzyme	None kno		
	Adapter for ILM	None kno		
	Hyb Blocker	None kno		
	Hyb Buffer	None kno		
	Hyb Enhancer	None kno		
	Soft Conversion	None kno		
	Reagent A		vvii.	
	2X Methyl Amplification	None kno	wn.	
	Mastermix			
	Library Wash Buffer	None kno	wn.	
	Hyb Wash Buffer 1	None kno	wn.	
	Hyb Wash Buffer 2	None kno	wn.	
	Soft Conversion	None kno	wn.	
	Reagent B			
Soft Conversion Binding		Causes digestive tract burns.		
	Beads		•	
	5X Soft Conversion	None known.		
	Wash Buffer			
	Soft Conversion Elution	None kno	wn.	
	Buffer			
	Soft Conversion Repair Solution	None kno	wn.	
	Library Binding Beads	None kno	wn.	
	Capture Beads	None kno		
	Index Primer Mix for ILM			
	17-24		****	
	Index Primer Mix for ILM	None kno	wn.	
	25-32			
Substances identified :	Ingredient name		Impact	
as having endocrine disruptor properties	Soft Conversion Bindir	oft Conversion Binding Beads		
distuptor properties	Poly(oxy-1,2-ethanediyl),		Environment	
	(1,1,3,3-tetramethylbutyl)			
	omegahydroxy-	. [((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

SECTION 3: Composition/information on ingredients

3.1 Substances	: Nuclease-Free Water	Mono-constituent substance
	End Prep Buffer	Mixture
	End Prep Enzyme	Mixture
	Ligation Buffer	Mixture
	Ligation Enzyme	Mixture
	Adapter for ILM	Mixture
	Hyb Blocker	Mixture
	Hyb Buffer	Mixture
	Hyb Enhancer	Mixture
	Soft Conversion Reagent A	Mixture
	2X Methyl Amplification Mastermix	Mixture
	Library Wash Buffer	Mixture
	Hyb Wash Buffer 1	Mixture
	Hyb Wash Buffer 2	Mixture
	-	

SECTION 3: Composition/information on ingredients

Soft Conversion Reagent B	Mixture
Soft Conversion Binding Beads	Mixture
5X Soft Conversion Wash Buffer	Mixture
Soft Conversion Elution Buffer	Mixture
Soft Conversion Repair Solution	Mixture
Library Binding Beads	Mixture
Capture Beads	Mixture
Index Primer Mix for ILM 17-24	Mixture
Index Primer Mix for ILM 25-32	Mixture

Identifiers	%	Classification	Туре
UK (GB) REACH #: Annex IV REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	[1]
EC: 232-094-6 CAS: 7786-30-3	<2.5	Aquatic Chronic 1, H410 (M=1)	[1]
UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
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	[1]
CAS: 9011-18-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
CAS: 9036-19-5	<0.1	STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1] [2
EC: 200-842-0 CAS: 75-12-7	≥90	Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 (blood) (oral)	[1] [2
EC: 202-625-6 CAS: 97-99-4	≥90	Eye Irrit. 2, H319 Repr. 1B, H360FD	[1]
	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5 EC: 232-094-6 CAS: 7786-30-3 UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 UK (GB) REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 UK (GB) REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 EC: 200-289-5 CAS: 56-81-5 EC: 200-880-8 CAS: 75-57-0 CAS: 9011-18-1 CAS: 9036-19-5 EC: 200-842-0 CAS: 75-12-7 EC: 202-625-6	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5 < 2.5 EC: 232-094-6 CAS: 7786-30-3 < 2.5 UK (GB) REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 $\geq 50 - \leq 75$ UK (GB) REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 $\geq 50 - \leq 75$ UK (GB) REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 $\geq 50 - \leq 75$ EC: 200-880-8 CAS: 75-57-0 $\geq 10 - <15$ CAS: 9011-18-1 CAS: 9036-19-5 ≤ 3 CAS: 9036-19-5 < 0.1 EC: 200-842-0 CAS: 75-12-7 ≥ 90 EC: 202-625-6 ≥ 90	REÅCH #: Annex IV 2:5 Aquatic Chronic 1, H410 (M=1) EC: 232-094-6 <2.5

vida Methyl Reagent Kit with 17-32 Index Primer Pairs for ILM, 16 Reactions, Part Number G9419B					
SECTION 3: Compositio	SECTION 3: Composition/information on ingredients				
Soft Conversion Reagent B ammonium hydrogensulphite	EC: 233-469-7 CAS: 10192-30-0	≥50 - ≤75	Eye Irrit. 2, H319 EUH031	[1]	
Soft Conversion Binding Beads	5				
ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥50 - ≤75	Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1] [2]	
salts of thiocyanic acid	EC: 209-812-1 CAS: 593-84-0 Index: 615-004-00-3	≥10 - ≤21	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 EUH032 EUH071	[1]	
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-		≤6.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1] [3]	
			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	Substance classified with a health or environmental hazard
	[2] Substance with a workplace exposure limit
Soft Conversion Reagent A	Substance classified with a health or environmental hazard
Soft Conversion Reagent B	Substance classified with a health or environmental hazard
Soft Conversion Binding Beads	Substance classified with a health or environmental hazard
	[2] Substance with a workplace exposure limit
	[3] Substance of equivalent concern
Occupational exposure limits, if available, are li	isted in Section 8.

Ipational exposure limits, if available, are listed in S

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. End Prep Buffer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. End Prep Enzyme Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Ligation Buffer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

u	illeasules	
	Ligation Enzyme	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 any contact lenses. Get medical attention if irritation occurs.
	Hyb Blocker	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Hyb Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
	Hyb Enhancer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	Soft Conversion Reagent A	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	2X Methyl Amplification Mastermix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Library Wash Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Hyb Wash Buffer 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Hyb Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Soft Conversion Reagent B	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	Soft Conversion Binding Beads	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	5X Soft Conversion Wash Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Soft Conversion Elution Buffer	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	Soft Conversion Repair Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Library Binding Beads	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Capture Beads	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Index Primer Mix for ILM 17-24	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

SECTION 4: FIrst alu	measures	
	Index Primer Mix for ILM 25-32	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 any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Nuclease-Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	End Prep Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	End Prep Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Ligation Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Ligation Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Adapter for ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hyb Blocker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hyb Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to- mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Hyb Enhancer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to- mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Soft Conversion Reagent A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to- mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	2X Methyl Amplification	Remove victim to fresh air and keep at rest in a position

aid measures	
Mastermix	comfortable for breathing. Get medical attention if symptoms
Library Wash Buffer	occur. 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.
Soft Conversion Reagent B Soft Conversion Binding Beads	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to- mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
5X Soft Conversion Wash Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Soft Conversion Elution Buffer	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Soft Conversion Repair Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may
Library Binding Beads	need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Capture Beads	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

	Index Primer Mix for ILM 17-24	occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms
	Index Primer Mix for ILM 25-32	occur. 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
	End Prep Buffer	symptoms occur. 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 symptoms occur.
	Ligation Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ligation Enzyme	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Adapter for ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hyb Blocker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hyb Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Hyb Enhancer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Soft Conversion Reagent A	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	2X Methyl Amplification Mastermix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Library Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hyb Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hyb Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Soft Conversion Reagent B	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Soft Conversion Binding Beads	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash
Date of issue/Date of revision	: 08/04/2024 Date of previou	s issue : 26/02/2024 Version : 1.1 19/89

		contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	5X Soft Conversion Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Soft Conversion Elution Buffer	
	Soft Conversion Repai Solution	
	Library Binding Beads	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Capture Beads	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Index Primer Mix for IL 17-24	
	Index Primer Mix for IL 25-32	
Ingestion	: Nuclease-Free Water	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	End Prep Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
	End Prep Enzyme	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ligation Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ligation Enzyme	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Adapter for ILM	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Hyb Blocker	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms
Date of issue/Date of revision	· 08/04/2024 Date of prev	ious issue :26/02/2024 Version :1.1 20/80

	occur
Hyb Buffer	occur. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Hyb Enhancer	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Soft Conversion Reagent A	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
2X Methyl Amplification Mastermix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Library Wash Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Hyb Wash Buffer 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Hyb Wash Buffer 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Soft Conversion Reagent B	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious,

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	place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing
Soft Conversion Binding Beads	such as a collar, tie, belt or waistband. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must
	be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
5X Soft Conversion Wash Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Soft Conversion Elution Buffer	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Soft Conversion Repair Solution	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Library Binding Beads	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Capture Beads	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Index Primer Mix for ILM 17-24	
Index Primer Mix for ILM 25-32	

SECTION 4: First aid measures Protection of first-aiders : Nuclease-Free Water No action shall be taken involving any personal risk or without suitable training. End Prep Buffer No action shall be taken involving any personal risk or without suitable training. End Prep Enzyme No action shall be taken involving any personal risk or without suitable training. Ligation Buffer No action shall be taken involving any personal risk or without suitable training. Ligation Enzyme No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without Adapter for ILM suitable training. No action shall be taken involving any personal risk or without Hyb Blocker suitable training. Hyb Buffer No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Hyb Enhancer No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Soft Conversion No action shall be taken involving any personal risk or without Reagent A suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. 2X Methyl Amplification No action shall be taken involving any personal risk or without Mastermix suitable training. Library Wash Buffer No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without Hyb Wash Buffer 1 suitable training. Hyb Wash Buffer 2 No action shall be taken involving any personal risk or without suitable training. Soft Conversion No action shall be taken involving any personal risk or without Reagent B suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Soft Conversion Binding No action shall be taken involving any personal risk or without Beads suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. 5X Soft Conversion No action shall be taken involving any personal risk or without Wash Buffer suitable training. Soft Conversion Elution No action shall be taken involving any personal risk or without Buffer suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Soft Conversion Repair No action shall be taken involving any personal risk or without Solution suitable training. Library Binding Beads No action shall be taken involving any personal risk or without suitable training. Capture Beads No action shall be taken involving any personal risk or without suitable training.

Index Primer Mix for ILM	No action shall be taken involving any personal risk or without
17-24	suitable training.
Index Primer Mix for ILM	No action shall be taken involving any personal risk or without
25-32	suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Over-exposure signs/symp	loms	
Eye contact	: Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
	The Daniel	pain or irritation
		watering
		redness
	Hyb Enhancer	No specific data.
	Soft Conversion	Adverse symptoms may include the following:
	Reagent A	
		pain or irritation
		watering
		redness
	2X Methyl Amplification	No specific data.
	Mastermix	···
	Library Wash Buffer	No specific data.
	Hyb Ŵash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion	Adverse symptoms may include the following:
	Reagent B	
	C	pain or irritation
		watering
		redness
	Soft Conversion Binding Beads	Adverse symptoms may include the following:
		pain
		watering
		redness
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following:
		pain
		watering
		redness
	Soft Conversion Repair	No specific data.
	Solution	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.
Inhalation	: Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following:

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	reduced foetal weight
	increase in foetal deaths
	skeletal malformations
Soft Conversion	Adverse symptoms may include the following:
Reagent A	reduced foetal weight
	increase in foetal deaths
	skeletal malformations
	No specific data.
•	No specific data.
Soft Conversion Binding	Adverse symptoms may include the following:
	respiratory tract irritation
	coughing
Wash Buffer	No specific data.
Soft Conversion Elution Buffer	No specific data.
Soft Conversion Repair Solution	No specific data.
Library Binding Beads	No specific data.
Capture Beads	No specific data.
Index Primer Mix for ILM 17-24	No specific data.
Index Primer Mix for ILM 25-32	No specific data.
: Nuclease-Free Water	No specific data.
End Prep Buffer	No specific data.
End Prep Enzyme	No specific data.
Ligation Buffer	No specific data.
	No specific data.
	No specific data.
	No specific data.
Hyb Buffer	Adverse symptoms may include the following:
	irritation redness
Hyb Enhancer	Adverse symptoms may include the following:
	reduced foetal weight
	increase in foetal deaths
	skeletal malformations
Soft Conversion	Adverse symptoms may include the following:
Reagent A	reduced foetal weight
	increase in foetal deaths
	skeletal malformations
2X Methyl Amplification Mastermix	No specific data.
Library Wash Buffer	No specific data.
Hyb Ŵash Buffer 1	No specific data.
Hyb Wash Buffer 2	No specific data.
Soft Conversion	No specific data.
Soft Conversion Binding	Adverse symptoms may include the following:
Deaus	nain or irritation
	pain or irritation redness
	blistering may occur
5X Soft Conversion	No specific data.
Wash Buffer	
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	Soft Conversion Reagent A2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32Nuclease-Free Water End Prep Buffer

SECTION 4: First aid measures			
	Soft Conversion Elution Buffer	Adverse symptoms may include the following:	
		pain or irritation redness	
		blistering may occur	
	Soft Conversion Repair	No specific data.	
	Library Binding Beads	No specific data.	
	Capture Beads	No specific data.	
	Index Primer Mix for ILM 17-24		
	Index Primer Mix for ILM 25-32	No specific data.	
Ingestion	Nuclease-Free Water	No specific data.	
	End Prep Buffer	No specific data.	
	End Prep Enzyme	No specific data.	
	Ligation Buffer	No specific data.	
	Ligation Enzyme Adapter for ILM	No specific data. 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	
	• <i>t</i> • • ·	skeletal malformations	
	Soft Conversion Reagent A	Adverse symptoms may include the following:	
		reduced foetal weight	
		increase in foetal deaths	
	2X Methyl Amplification	skeletal malformations	
	Mastermix	No specific data.	
	Library Wash Buffer	No specific data.	
	Hyb Wash Buffer 1	No specific data.	
	Hyb Wash Buffer 2	No specific data.	
	Soft Conversion	No specific data.	
	Reagent B	Adverse symptoms may include the following:	
	Soft Conversion Binding Beads	Adverse symptoms may include the following:	
	5X Soft Conversion	stomach pains No specific data.	
	Wash Buffer		
	Soft Conversion Elution Buffer	Adverse symptoms may include the following:	
		stomach pains	
	Soft Conversion Repair Solution	No specific data.	
	Library Binding Beads	No specific data.	
	Capture Beads Index Primer Mix for ILM	No specific data. No specific data.	
	17-24		
	Index Primer Mix for ILM 25-32	No specific data.	
4.3 Indication of any immedia	ate medical attention and	special treatment needed	
	Nuclease-Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
	End Prep Buffer	In case of inhalation of decomposition products in a fire,	
		symptoms may be delayed. The exposed person may need	
		to be kept under medical surveillance for 48 hours.	
	End Prep Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
	Ligation Buffer	In case of inhalation of decomposition products in a fire	

Ligation Buffer

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In case of inhalation of decomposition products in a fire,

		symptoms may be delayed. The exposed person may need
	Ligation Enzyme	to be kept under medical surveillance for 48 hours. 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
	Hyb Enhancer	to be kept under medical surveillance for 48 hours. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need
	Soft Conversion	to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist
	Reagent A	immediately if large quantities have been ingested or inhaled.
	2X Methyl Amplification	Treat symptomatically. Contact poison treatment specialist
	Mastermix	immediately if large quantities have been ingested or inhaled.
	Library Wash Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Soft Conversion	In case of inhalation of decomposition products in a fire,
	Reagent B	symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Soft Conversion Binding	In case of inhalation of decomposition products in a fire,
	Beads	symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	5X Soft Conversion Wash Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Soft Conversion Elution	Treat symptomatically. Contact poison treatment specialist
	Buffer	immediately if large quantities have been ingested or inhaled.
	Soft Conversion Repair Solution	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need
	Library Binding Beads	to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Capture Beads	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Index Primer Mix for ILM 17-24	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Index Primer Mix for ILM 25-32	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments :	Nuclease-Free Water	No specific treatment.
	End Prep Buffer End Prep Enzyme	No specific treatment. No specific treatment.
	Ligation Buffer	No specific treatment.
	Ligation Enzyme	No specific treatment.
	Adapter for ILM	No specific treatment.
	Hyb Blocker	No specific treatment.
	Hyb Buffer	No specific treatment.
	Hyb Enhancer Soft Conversion	No specific treatment. No specific treatment.
	Reagent A	No specific treatment.
	2X Methyl Amplification Mastermix	No specific treatment.
	Library Wash Buffer	No specific treatment.
	Hyb Wash Buffer 1	No specific treatment.
	Hyb Wash Buffer 2	No specific treatment.
	Soft Conversion	No specific treatment.
	Reagent B Soft Conversion Binding	No specific treatment.
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Beads	
5X Soft Conversion Wash Buffer	No specific treatment.
Soft Conversion Elution Buffer	No specific treatment.
Soft Conversion Repair Solution	No specific treatment.
Library Binding Beads	No specific treatment.
Capture Beads	No specific treatment.
Index Primer Mix for ILM 17-24	No specific treatment.
Index Primer Mix for ILM 25-32	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing	: Nuclease-Free Water	Use an extinguishing agent suitable for the surrounding fire.
media	End Prep Buffer	Use an extinguishing agent suitable for the surrounding fire.
	End Prep Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	Adapter for ILM	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Blocker	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Enhancer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion	Use an extinguishing agent suitable for the surrounding fire.
	Reagent A	
	2X Methyl Amplification Mastermix	Use an extinguishing agent suitable for the surrounding fire.
	Library Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Ŵash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Reagent B	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Binding Beads	Use dry chemical, CO_2 , water spray (fog) or foam.
	5X Soft Conversion Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Elution Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Repair Solution	Use an extinguishing agent suitable for the surrounding fire.
	Library Binding Beads	Use an extinguishing agent suitable for the surrounding fire.
	Capture Beads	Use an extinguishing agent suitable for the surrounding fire.
	Index Primer Mix for ILM 17-24	Use an extinguishing agent suitable for the surrounding fire.
		Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing	: Nuclease-Free Water	None known.
media	End Prep Buffer	None known.
	End Prep Enzyme	None known.
	Ligation Buffer	None known.
	Ligation Enzyme	None known.
	Adapter for ILM	None known.
	Hyb Blocker	None known.
	Hyb Buffer	None known.
	Hyb Enhancer	None known.
	Soft Conversion Reagent A	None known.
	2X Methyl Amplification Mastermix	None known.
	Library Wash Buffer	None known.

Hyb Wash Buffer 1	None known.
Hyb Wash Buffer 2	None known.
Soft Conversion	None known.
Reagent B	
Soft Conversion Binding	Do not use water jet.
Beads	
5X Soft Conversion	None known.
Wash Buffer	
Soft Conversion Elution	None known.
Buffer	
Soft Conversion Repair	None known.
Solution	
Library Binding Beads	None known.
Capture Beads	None known.
Index Primer Mix for ILM	None known.
17-24	
Index Primer Mix for ILM	None known.
25-32	

5.2 Special hazards arising from the substance or mixture

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

Date of issue/Date of revision	Hyb Wash Buffer 1	metal oxide/oxides Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	Library Wash Buffer	carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds
	2X Methyl Amplification Mastermix	carbon monoxide Decomposition products may include the following materials:
	Reagent A	carbon dioxide
	Soft Conversion	carbon monoxide nitrogen oxides Decomposition products may include the following materials:
	Hyb Enhancer	nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide
	Adapter for ILM Hyb Blocker Hyb Buffer	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ligation Enzyme	carbon monoxide nitrogen oxides halogenated compounds Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ligation Buffer	carbon monoxide Decomposition products may include the following materials: carbon dioxide
products	End Prep Enzyme	carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide
Hazardous combustion	25-32 : Nuclease-Free Water End Prep Buffer	container may burst. No specific data. Decomposition products may include the following materials:
	17-24 Index Primer Mix for ILM	
	Index Primer Mix for ILM	container may burst.
	Library Binding Beads Capture 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
	Soft Conversion Repair Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
	5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer	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 container may burst.
	EV Coff Conversion	any waterway, sewer or drain.

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	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	Decomposition products may include the following materials:
		nitrogen oxides sulfur oxides
	Soft Conversion Binding Beads	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide nitrogen oxides
		sulfur oxides
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	No specific data.
	Soft Conversion Repair Solution	Decomposition products may include the following materials:
		carbon dioxide carbon monoxide
		nitrogen oxides
		halogenated compounds
	Library Binding Beads	Decomposition products may include the following materials:
		carbon dioxide carbon monoxide
		halogenated compounds
		metal oxide/oxides
	Capture Beads	No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.
5.3 Advice for firefighters		
5.3 Advice for firefighters Special protective actions for fire-fighters	: Nuclease-Free Water	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
Special protective	: Nuclease-Free Water End Prep Buffer	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
Special protective		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
Special protective	End Prep Buffer End Prep Enzyme	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	End Prep Buffer	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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
Special protective	End Prep Buffer End Prep Enzyme	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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
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	2X Methyl Amplification Mastermix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Library Wash Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
	Hyb Wash Buffer 1	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
	Hyb Wash Buffer 2	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
	Soft Conversion Reagent B	taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training
	Soft Conversion Binding Beads	taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	5X Soft Conversion Wash Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Soft Conversion Elution Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Soft Conversion Repair Solution	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Library Binding Beads	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Capture Beads	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Index Primer Mix for ILM 17-24	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Index Primer Mix for ILM 25-32	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
equipment for fire-	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.
fighters	End Prep Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	End Prep Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Ligation Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Ligation Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Adapter for ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Blocker	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Buffer	Fire-fighters should wear appropriate protective equipment

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	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.
Hyb Enhancer	Fire-fighters should wear appropriate protective equipment
	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Soft Conversion	Fire-fighters should wear appropriate protective equipment
Reagent A	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.
2X Methyl Amplification	Fire-fighters should wear appropriate protective equipment
Mastermix	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.
Library Wash Buffer	Fire-fighters should wear appropriate protective equipment
	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.
Hyb Wash Buffer 1	Fire-fighters should wear appropriate protective equipment
	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hyb Wash Buffer 2	Fire-fighters should wear appropriate protective equipment
Thy Wash Duner 2	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.
Soft Conversion	Fire-fighters should wear appropriate protective equipment
Reagent B	and self-contained breathing apparatus (SCBA) with a full
-	face-piece operated in positive pressure mode.
Soft Conversion Binding	Fire-fighters should wear appropriate protective equipment
Beads	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.
5X Soft Conversion	Fire-fighters should wear appropriate protective equipment
Wash Buffer	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Soft Conversion Elution	Fire-fighters should wear appropriate protective equipment
Buffer	and self-contained breathing apparatus (SCBA) with a full
Dunor	face-piece operated in positive pressure mode.
Soft Conversion Repair	Fire-fighters should wear appropriate protective equipment
Solution	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.
Library Binding Beads	Fire-fighters should wear appropriate protective equipment
	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.
Capture Beads	Fire-fighters should wear appropriate protective equipment
	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Index Primer Mix for ILM	
17-24	and self-contained breathing apparatus (SCBA) with a full
··· _·	face-piece operated in positive pressure mode.
Index Primer Mix for ILM	Fire-fighters should wear appropriate protective equipment
25-32	and self-contained breathing apparatus (SCBA) with a full
	face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	: Nuclease-Free Water	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	End Prep Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	End Prep Enzyme	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do

Date of issue/Date of revision: 08/04/2024Date of previous issue: 26/02/2024Version: 1.133/89

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

SECTION 6: Accidental release measures

Ligation Buffer personal protective equipment. Ligation Buffer No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal rotective equipment. Ligation Enzyme No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected 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 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 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear 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 personal protective equipment. Hyb Enhancer No action shall be taken involving any personal risk or		not touch or walk through spilt material. Put on appropriate
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personal protective equipment.		unnecessary and unprotected personnel from entering. Do
Soft Conversion No action shall be taken involving any personal risk or without	0.00	
	Soft Conversion	No action shall be taken involving any personal risk or without

SECTION 6: Accidental release measures

	Ligation Buffer	emergency personnel". If specialised clothing is required to deal with the spillage,
	End Prep Enzyme	unsuitable materials. See also the information in "For non- emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	End Prep Buffer	unsuitable materials. See also the information in "For non- emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and
For emergency responders	: Nuclease-Free Water	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and
	Index Primer Mix for ILM 25-32	not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Index Primer Mix for ILM 17-24	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 without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do
	Capture Beads	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 without suitable training. Evacuate surrounding areas. Keep
	Library Binding Beads	not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep
	Soft Conversion Repair Solution	not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do
	Soft Conversion Elution Buffer	not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do
	5X Soft Conversion Wash Buffer	sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do
	Soft Conversion Binding Beads	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. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition
	Reagent B	suitable training. Evacuate surrounding areas. Keep

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SECTION 6: Accidental release measures

		take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
Ligation Enzyme		emergency personnel". If specialised clothing is required to deal with the spillage,
	Eigation Enzyme	take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
		emergency personnel".
	Adapter for ILM	If specialised clothing is required to deal with the spillage,
		take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non- emergency personnel".
	Hyb Blocker	If specialised clothing is required to deal with the spillage,
	Tryb Blockol	take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
		emergency personnel".
	Hyb Buffer	If specialised clothing is required to deal with the spillage,
		take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
		emergency personnel".
	Hyb Enhancer	If specialised clothing is required to deal with the spillage,
		take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
		emergency personnel".
	Soft Conversion	If specialised clothing is required to deal with the spillage,
	Reagent A	take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
		emergency personnel".
	2X Methyl Amplification	If specialised clothing is required to deal with the spillage,
	Mastermix	take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
		emergency personnel".
	Library Wash Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
		emergency personnel".
	Hyb Wash Buffer 1	If specialised clothing is required to deal with the spillage,
		take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
	Hyb Wash Buffer 2	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".
	Soft Conversion	If specialised clothing is required to deal with the spillage,
	Reagent B	take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non- emergency personnel".
	Soft Conversion Binding	If specialised clothing is required to deal with the spillage,
	Beads	take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
		emergency personnel".
	5X Soft Conversion	If specialised clothing is required to deal with the spillage,
	Wash Buffer	take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
		emergency personnel".
	Soft Conversion Elution	If specialised clothing is required to deal with the spillage,
	Buffer	take note of any information in Section 8 on suitable and
		unsuitable materials. See also the information in "For non-
		emergency personnel".
	Soft Conversion Repair Solution	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and
	Solution	unsuitable materials. See also the information in "For non-
		emergency personnel".
	Library Binding Beads	If specialised clothing is required to deal with the spillage,
	-	

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SECTION 6: Acci	dental release measu	res
	Capture Beads	take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel". If specialised clothing is required to deal with the spillage,
	·	take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	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	
6.2 Environmental precautions	: Nuclease-Free Water	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	End Prep Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
	End Prep Enzyme	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Ligation Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Ligation Enzyme	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	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.
	Hyb Enhancer	May be harmful to the environment if released in large 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
	Soft Conversion Reagent A	(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).
	2X Methyl Amplification Mastermix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

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SECTION 6: Accidental release measures

	(sewers, waterways, soil or air).
Library Wash Buffer	Avoid dispersal of spilt material and runoff and contact with
	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Hyb Wash Buffer 1	Avoid dispersal of spilt material and runoff and contact with
5	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Hyb Wash Buffer 2	Avoid dispersal of spilt material and runoff and contact with
	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Soft Conversion	Avoid dispersal of spilt material and runoff and contact with
Reagent B	soil, waterways, drains and sewers. Inform the relevant
Redgent B	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Soft Conversion Binding	Avoid dispersal of spilt material and runoff and contact with
Beads	soil, waterways, drains and sewers. Inform the relevant
Deddo	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air). Water polluting material.
	May be harmful to the environment if released in large
	quantities. Collect spillage.
5X Soft Conversion	Avoid dispersal of spilt material and runoff and contact with
Wash Buffer	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Soft Conversion Elution	Avoid dispersal of spilt material and runoff and contact with
Buffer	soil, waterways, drains and sewers. Inform the relevant
Ballol	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Soft Conversion Repair	Avoid dispersal of spilt material and runoff and contact with
Solution	soil, waterways, drains and sewers. Inform the relevant
Colution	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
Elstary Binding Boddo	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Capture Beads	Avoid dispersal of spilt material and runoff and contact with
Cuptaro Doudo	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	Avoid dispersal of spilt material and runoff and contact with
17-24	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	Avoid dispersal of spilt material and runoff and contact with
25-32	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
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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.
	End Prep Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

End Prep Enzyme	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Ligation Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Ligation Enzyme	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Adapter for ILM	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Hyb Blocker	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Hyb Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Hyb Enhancer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Soft Conversion Reagent A	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
2X Methyl Amplification Mastermix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Library Wash Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Hyb Wash Buffer 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Hyb Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Soft Conversion Reagent B	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

SECTION 6: Accidental release measures

		of via a licensed waste disposal contractor.
	Soft Conversion Binding	Stop leak if without risk. Move containers from spill area.
	Beads	Use spark-proof tools and explosion-proof equipment.
		Dilute with water and mop up if water-soluble. Alternatively,
		or if water-insoluble, absorb with an inert dry material and
		place in an appropriate waste disposal container. May be
		harmful to the environment if released. Dispose of spillages
		under controlled conditions.
	5X Soft Conversion	Stop leak if without risk. Move containers from spill area.
	Wash Buffer	Dilute with water and mop up if water-soluble. Alternatively,
		or if water-insoluble, absorb with an inert dry material and
		place in an appropriate waste disposal container. Dispose
		of via a licensed waste disposal contractor.
	Soft Conversion Elution	Stop leak if without risk. Contain and collect spillage with
	Buffer	non-combustible, absorbent material e.g. sand, earth,
		vermiculite or diatomaceous earth and place in container for
		disposal according to local regulations. Move containers
		from spill area. Dispose of via a licensed waste disposal
		contractor.
	Soft Conversion Repair	Stop leak if without risk. Move containers from spill area.
	Solution	Dilute with water and mop up if water-soluble. Alternatively,
		or if water-insoluble, absorb with an inert dry material and
		place in an appropriate waste disposal container. Dispose
		of via a licensed waste disposal contractor.
	Library Binding Beads	Stop leak if without risk. Move containers from spill area.
		Dilute with water and mop up if water-soluble. Alternatively,
		or if water-insoluble, absorb with an inert dry material and
		place in an appropriate waste disposal container. Dispose
		of via a licensed waste disposal contractor.
	Capture Beads	Stop leak if without risk. Move containers from spill area.
	Suptillo Boudo	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,
	17-24	or if water-insoluble, absorb with an inert dry material and
		place in an appropriate waste disposal container. Dispose
		of via a licensed waste disposal contractor.
	Index Primer Mix for ILM	•
	25-32	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.
		งา พน น แบบการชน พนรเช นารุบรรสา บบกแลชเบา.
6.4 Reference to other :	See Section 1 for emerge	ncy contact information.

See Section 8 for information on appropriate personal protective equipment.

SECTION 7: Handling and storage

sections

7.1 Precautions for safe h	andling	
Protective measures	: Nuclease-Free Water	Put on appropriate personal protective equipment (see Section 8).
	End Prep Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	End Prep Enzyme	Put on appropriate personal protective equipment (see Section 8).
Date of issue/Date of revision	: 08/04/2024 Date of previo	us issue : 26/02/2024 Version : 1.1 40/89

See Section 13 for additional waste treatment information.

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

SECTION 7: Handling and storage approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. 5X Soft Conversion Put on appropriate personal protective equipment (see Wash Buffer Section 8). Soft Conversion Elution Put on appropriate personal protective equipment (see Buffer Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Soft Conversion Repair Put on appropriate personal protective equipment (see Solution Section 8). Library Binding Beads Put on appropriate personal protective equipment (see Section 8). Capture Beads Put on appropriate personal protective equipment (see Section 8). Index Primer Mix for ILM Put on appropriate personal protective equipment (see 17-24 Section 8). Index Primer Mix for ILM Put on appropriate personal protective equipment (see 25-32 Section 8). Advice on general : Nuclease-Free Water Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. occupational hygiene Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. End Prep Buffer Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. End Prep Enzyme Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Ligation Buffer Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Ligation Enzyme Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Adapter for ILM Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking

and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

Hyb Blocker	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
Hyb Buffer	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 Section 8
Hyb Enhancer	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
Soft Conversion Reagent A	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
2X Methyl Amplification Mastermix	equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8
Library Wash Buffer	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
Hyb Wash Buffer 1	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
Hyb Wash Buffer 2	equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8
Soft Conversion Reagent B	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
Soft Conversion Binding Beads	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
5X Soft Conversion Wash Buffer	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.
Soft Conversion Elution	Eating, drinking and smoking should be prohibited in areas
Buffer	where this material is handled, stored and processed.
	Workers should wash hands and face before eating, drinking
	and smoking. Remove contaminated clothing and protective
	equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Soft Conversion Repair	Eating, drinking and smoking should be prohibited in areas
Solution	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
Library Binding Beads	for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas
Elbrary Binding Bedde	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
Capture Beads	for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas
Capitale Deads	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
Index Primer Mix for ILM	for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas
17-24	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
Index Primer Mix for ILM	for additional information on hygiene measures.
25-32	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
	Workers should wash hands and face before eating, drinking
	and smoking. Remove contaminated clothing and protective
	equipment before entering eating areas. See also Section 8
	for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

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

Soft Conversion Reagent A	resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use.
2X Methyl Amplification Mastermix	Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to
Library Wash Buffer	prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been
Hyb Wash Buffer 1	opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been
Hyb Wash Buffer 2	opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been
Soft Conversion Reagent B	opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use
	appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Soft Conversion Binding Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and dirik. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep 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 (see Section 10) and food and dirik. Kreep container tightly closed and sealed until ready for use. 5X Soft Conversion 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 dirik. 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 dirick. 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 dirick. 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 dirik. 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 dirik. 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 dirik. 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.	 and storage	
 Wash Buffer 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 containination. See Section 10 or for incompatible materials before handling or use. Soft Conversion Elution Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containmer to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Soft Conversion Repair Soft Conversion Repair Soft Conversion Repair Solution Soft and sealed until ready for use. Containers that have been opened must be carefully resealed 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 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 contai	•	segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Soft Conversion Elution BufferStore in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.Soft Conversion Repair SolutionStore 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 BeadsStore 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 containers. Use appropriate containment to avoid environmental containers to avoid environmental 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 to used and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store		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
Soft Conversion Repair SolutionStore 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 BeadsStore 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 BeadsStore 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 		Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See
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. 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 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		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
Capture BeadsStore 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 ILMStore in accordance with local regulations. Store in original	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
Index Primer Mix for ILM Store in accordance with local regulations. Store in original	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
		Store in accordance with local regulations. Store in original

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

Seveso Directive - Reporting thresholds

Danger criteria

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

7.3 Specific end use(s)

Recommendations

 Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 	Industrial applications, Professional applications. Industrial applications, Professional applications.
Capture Beads Index Primer Mix for ILM 17-24	Industrial applications, Professional applications. Industrial applications, Professional applications.

	ndex Primer Mix for ILM Industrial applications, Professional applications. 25-32	
Industrial sector specific solutions		
	Buffer Soft Conversion Repair Not available.	
	ndex Primer Mix for ILM Not available. I7-24	
	ndex Primer Mix for ILM Not available. 25-32	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
End Prep Enzyme	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: Mist
Ligation Enzyme	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: Mist
Hyb Enhancer	
Formamide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 56 mg/m ³ 15 minutes.
	STEL: 30 ppm 15 minutes.
	TWA: 37 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
Soft Conversion Binding Beads	
ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 1000 ppm 8 hours.
	TWA: 1920 mg/m ³ 8 hours.

No exposure indices known.

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SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures

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

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
End Prep Buffer Magnesium chloride	DNEL	Long term Oral	7 mg/kg bw/day	General population	Systemic
Hyb Buffer tetramethylammonium chloride	DNEL	Long term Oral	0.25 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.25 mg/	population General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.4 mg/kg	population Workers	Systemic
	DNEL	Long term	bw/day 1.76 mg/m³	General	Systemic
	DNEL	Inhalation Long term Inhalation	2.9 mg/m³	population Workers	Systemic
Hyb Enhancer Formamide	DNEL	Long term Dermal	0.952 mg/	Workers	Systemic
Tormaniae			kg bw/day		
	DNEL	Long term Inhalation	6.6 mg/m ³	Workers	Systemic
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	DNEL	Long term Oral	0.175 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.25 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.4 mg/m ³	Workers	Systemic
Soft Conversion Binding Beads					
ethanol	DNEL	Long term Inhalation	380 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m ³	General population	Local
	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
salts of thiocyanic acid	DNEL	Long term Oral	0.155 mg/	General population	Systemic
	DNEL	Long term Dermal	kg bw/day 0.155 mg/	General	Systemic
	DNEL	Long term Inhalation	kg bw/day 0.27 mg/m³	population General population	Systemic
	DNEL	Long term Dermal	0.31 mg/	Workers	Systemic
	DNEL	Long term	kg bw/day 1.092 mg/	Workers	Systemic
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SECTION 8: Exposure controls/personal protection

Inhalation m³ DNEL Short term 3.28 mg/m³ Workers Systemic Inhalation Inhalation Inhalation Inhalation Inhalation
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PNECs

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection meas	<u>Jres</u>
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 End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid.
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	Soft Conversion Liquid. Reagent A		
	2X Methyl Amplification Liquid. [Clear.]		
	Mastermix Library Wash Buffer Liquid.		
	Library Wash Buffer Liquid. Hyb Wash Buffer 1 Liquid.		
	Hyb Wash Buffer 2 Liquid.		
	Soft Conversion Liquid.		
	Reagent B		
	Soft Conversion Binding Liquid. Beads		
	5X Soft Conversion Liquid. Wash Buffer		
	Soft Conversion Elution Liquid. Buffer		
	Soft Conversion Repair Liquid. Solution		
	Library Binding Beads Liquid.		
	Capture Beads Liquid.		
	Index Primer Mix for ILM Liquid. 17-24		
	Index Primer Mix for ILM Liquid. 25-32		
Colour	: Nuclease-Free Water Colourless.		
	End Prep Buffer Not available.		
	End Prep Enzyme Not available.		
	Ligation Buffer Not available.		
	Ligation Enzyme Not available.		
	Adapter for ILM Not available.		
	Hyb Blocker Not available.		
	Hyb Buffer Not available.		
	Hyb Enhancer Not available.		
	Soft Conversion Not available. Reagent A		
	2X Methyl Amplification Not available. Mastermix		
	Library Wash Buffer Not available.		
	Hyb Wash Buffer 1 Not available.		
	Hyb Wash Buffer 2 Not available.		
	Soft Conversion Not available. Reagent B		
	Soft Conversion Binding Not available. Beads		
	5X Soft Conversion Not available. Wash Buffer		
	Soft Conversion Elution Not available. Buffer		
	Soft Conversion Repair Not available. Solution		
	Library Binding Beads Not available.		
	Capture Beads Not available.		
	Index Primer Mix for ILM Not available. 17-24		
	Index Primer Mix for ILM Not available. 25-32		
Odour	: Nuclease-Free Water Odourless.		
	End Prep Buffer Not available.		
	End Prep Enzyme Not available.		
	Ligation Buffer Not available.		
	Ligation Enzyme Not available.		
	Adapter for ILM Not available.		
	Hyb Blocker Not available.		
	Hyb Buffer Not available.		
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		•	
	Hyb Enhancer	Not available.	
	Soft Conversion	Not available.	
	Reagent A		
	2X Methyl Amplification	Not available.	
	Mastermix		
		Netevoileble	
	Library Wash Buffer	Not available.	
	Hyb Wash Buffer 1	Not available.	
	Hyb Wash Buffer 2	Not available.	
	Soft Conversion	Not available.	
	Reagent B		
	Soft Conversion Binding	Not available.	
	Beads		
	5X Soft Conversion	Not available.	
		NUL available.	
	Wash Buffer		
	Soft Conversion Elution	Not available.	
	Buffer		
	Soft Conversion Repair	Not available.	
	Solution		
	Library Binding Beads	Not available.	
	Capture Beads	Not available.	
	Index Primer Mix for ILM		
	17-24		
		1 Not available	
	Index Primer Mix for ILM	i not available.	
	25-32		
Odour threshold	: Nuclease-Free Water	Not available.	
	End Prep Buffer	Not available.	
	End Prep Enzyme	Not available.	
	Ligation Buffer	Not available.	
	Ligation Enzyme	Not available.	
	Adapter for ILM	Not available.	
	Hyb Blocker	Not available.	
	Hyb Buffer	Not available.	
	Hyb Enhancer	Not available.	
	Soft Conversion	Not available.	
	Reagent A		
	2X Methyl Amplification	Not available.	
	Mastermix		
		Netevoileble	
	Library Wash Buffer	Not available.	
	Hyb Wash Buffer 1	Not available.	
	Hyb Wash Buffer 2	Not available.	
	Soft Conversion	Not available.	
	Reagent B		
	Soft Conversion Binding	Not available.	
	Beads		
	5X Soft Conversion	Not available.	
	Wash Buffer		
	Soft Conversion Elution	Not available.	
	Buffer		
		Netevoileble	
	Soft Conversion Repair	Not available.	
	Solution		
	Library Binding Beads	Not available.	
	Capture Beads	Not available.	
	Index Primer Mix for ILM	1 Not available.	
	17-24		
	Index Primer Mix for ILM	1 Not available.	
	25-32		
		<u>^</u>	
Melting point/freezing	: Nuclease-Free Water	0°C	
point	End Prep Buffer	Not available.	
	End Prep Enzyme	Not available.	
	Ligation Buffer	Not available.	
	Ligation Enzyme	Not available.	
	Adapter for ILM	0°C	
	Hyb Blocker	0°C	

•	•	
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	<-120°C
	Reagent A	
	2X Methyl Amplification	Not available.
	Mastermix	
	Library Wash Buffer	Not available.
		0°C
	Hyb Wash Buffer 1	
	Hyb Wash Buffer 2	0°C
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	Beads	
		<u>^</u>
	5X Soft Conversion	0°C
	Wash Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	•	Not available.
	Solution	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	0°C
	17-24	
	Index Primer Mix for ILM	0°C
		00
	25-32	
Initial boiling point and :	Nuclease-Free Water	100°C
boiling range	End Prep Buffer	Not available.
boling range		
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	100°C
	Hyb Blocker	100°C
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	177.7°C
	Reagent A	
	2X Methyl Amplification	Not available.
	Mastermix	
		Neteveileble
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	100°C
	Hyb Wash Buffer 2	100°C
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	-	
	Beads	40000
	5X Soft Conversion	100°C
	Wash Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	100°C
	17-24	
	Index Primer Mix for ILM	100°C
	25-32	

Flammability	: Nuclease-Free Water	Not applicable.	
	End Prep Buffer End Prep Enzyme	Not applicable. Not applicable.	
	Ligation Buffer	Not applicable.	
	Ligation Enzyme	Not applicable.	
	Adapter for ILM	Not applicable.	
	Hyb ['] Blocker	Not applicable.	
	Hyb Buffer	Not applicable.	
	Hyb Enhancer	Not applicable.	
	Soft Conversion	Not applicable.	
	Reagent A	Net englische	
	2X Methyl Amplification Mastermix	Not applicable.	
	Library Wash Buffer	Not applicable.	
	Hyb Wash Buffer 1	Not applicable.	
	Hyb Wash Buffer 2 Soft Conversion	Not applicable.	
	Reagent B	Not applicable.	
	Soft Conversion Binding Beads	Not applicable.	
	5X Soft Conversion Wash Buffer	Not applicable.	
	Soft Conversion Elution	Not applicable.	
	Buffer Soft Conversion Repair Solution	Not applicable.	
	Library Binding Beads	Not applicable.	
	Capture Beads	Not applicable.	
	Index Primer Mix for ILM 17-24	Not applicable.	
	Index Primer Mix for ILM 25-32	Not applicable.	
Upper/lower flammability	: Nuclease-Free Water	Not available.	
or explosive limits	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 Hyb Buffer	Not available. Not available.	
	Hyb Enhancer	Not available.	
	Soft Conversion	Not available.	
	Reagent A		
	2X Methyl Amplification Mastermix	Not available.	
	Library Wash Buffer	Not available.	
	Hyb Wash Buffer 1	Not available.	
	Hyb Wash Buffer 2	Not available.	
	Soft Conversion	Not available.	
	Reagent B Soft Conversion Binding	Not available.	
	Beads		
	5X Soft Conversion Wash Buffer	Not available.	
	Soft Conversion Elution Buffer	Not available.	
	Soft Conversion Repair Solution	Not available.	
	Library Binding Beads	Not available.	
	Capture Beads	Not available.	
	Index Primer Mix for ILM 17-24	Not available.	
	Index Primer Mix for ILM 25-32	Not available.	
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Flash point :						
	Nuclease-Free Water	Not available.				
	End Prep Buffer	Not available.				
	End Prep Enzyme	Not available.				
	Ligation Buffer Ligation Enzyme	Not available. Not available.				
	Adapter for ILM	Not available.				
	Hyb Blocker	Not available.				
	Hyb Buffer	Not available.				
	Hyb Enhancer	Not available.				
	Soft Conversion	Closed cup: 73	3°C			
	Reagent A					
	2X Methyl Amplification Mastermix	Not available.				
	Library Wash Buffer	Not available.				
	Hyb Wash Buffer 1	Not available.				
	Hyb Wash Buffer 2	Not available.				
	Soft Conversion Reagent B	Not available.				
	Soft Conversion Binding Beads	Closed cup: 37	7.8 to 61°	C		
	5X Soft Conversion Wash Buffer	Not available.				
	Soft Conversion Elution Buffer	Not available.				
	Soft Conversion Repair Solution	Not available.				
	Library Binding Beads	Not available.				
	Capture Beads	Not available.				
	Index Primer Mix for ILM	Not available.				
	17-24 Index Primer Mix for ILM	Not available				
	25-32	NUL avaliable.	i		i	
			Clo	sed cup	O	pen cup
	Ingredient name		°C	Method	°C	Method
	End Prep Enzyme					
	ducaral				177	
	glycerol		-	-	177	-
	glycerol Ligation Buffer		-	-	177	-
	Ligation Buffer		-	-		-
			- 171 to 235	-	177 199 to 238	-
	Ligation Buffer Poly(oxy-1,2-ethanediyl),			-	199 to	-
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Ligation Enzyme			-	199 to 238	-
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol,			-	199 to	-
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Ligation Enzyme			-	199 to 238	-
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Ligation Enzyme glycerol Hyb Enhancer		-	-	199 to 238 177	-
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Ligation Enzyme glycerol			-	199 to 238	- - DIN EN ISO 2592
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Ligation Enzyme glycerol Hyb Enhancer	ethoxylated α-hydro-ω-	-	-	199 to 238 177	
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Ligation Enzyme glycerol Hyb Enhancer formamide Poly(oxy-1,2-ethanediyl),	ethoxylated α-hydro-ω-	235 - 150 171 to	-	199 to 238 177 152 199 to	
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Ligation Enzyme glycerol Hyb Enhancer formamide Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Library Wash Buffer Poly(oxy-1,2-ethanediyl),	α-hydro-ω- ethoxylated α-hydro-ω-	235 - 150 171 to 235 171 to	-	199 to 238 177 152 199 to 238	
	Ligation Buffer Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Ligation Enzyme glycerol Hyb Enhancer formamide Poly(oxy-1,2-ethanediyl), hydroxy- Ethane-1,2-diol, Library Wash Buffer	α-hydro-ω- ethoxylated α-hydro-ω-	235 - 150 171 to 235	-	199 to 238 177 152 199 to 238	

	Library Binding Beads						
	Poly(oxy-1,2-ethanediyl),α-hydro-ω-	171 to -	199 to -				
	hydroxy- Ethane-1,2-diol, ethoxylated	235	238				
Auto-ignition temperature	: Nuclease-Free Water Not applicable. 2X Methyl Amplification 215°C Mastermix						
	Ingredient name	°C	Method				
	End Prep Enzyme						
	glycerol	370	-				
	Ligation Buffer						
	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hyd Ethane-1,2-diol, ethoxylated	roxy- 360	-				
	Ligation Enzyme						
	glycerol	370	-				
	Hyb Enhancer						
	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hyd Ethane-1,2-diol, ethoxylated	roxy- 360	-				
	formamide	>500	ASTM D 2155-66				
	Soft Conversion Reagent A						
	tetrahydro-2-furyl-methanol	282	-				
	Library Wash Buffer						
	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hyd Ethane-1,2-diol, ethoxylated	roxy- 360	-				
	Soft Conversion Binding Beads						
	ethanol	455	DIN 51794				
	Library Binding Beads						
	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hyd Ethane-1,2-diol, ethoxylated	roxy- 360	-				
Decomposition emperature	: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Adapter for ILM Hyb Blocker Hyb Enhancer Not available. Not available.						
	Soft Conversion Not available. Reagent A						

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

	Reagent A			
		Not available.		
	5	Not available.		
	Soft Conversion Binding	Not available.		
		Not available.		
	Wash Buffer Soft Conversion Elution	Not available.		
	Buffer Soft Conversion Repair	Not available.		
	Solution	Not available.		
	, ,			
		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	
	End Prep Buffer			
	water		Soluble	
	End Prep Enzyme			
	water		Soluble	
	Ligation Buffer water		Soluble	
	Ligation Enzyme		Colubic	
	water		Soluble	
	Adapter for ILM			
	water		Soluble	
	Hyb Blocker		Calubla	
	water		Soluble	
	Hyb Buffer			
	water		Soluble	
	Hyb Enhancer			
	water		Soluble	
	Soft Conversion Reagen	t A		
	water		Soluble	
	2X Methyl Amplification	Mastermix		
	water		Soluble	
	Library Wash Buffer			
	water		Soluble	
	Hyb Wash Buffer 1			
	water		Soluble	
	Hyb Wash Buffer 2			
	water	4 D	Soluble	
	Soft Conversion Reagen	10	Solubla	
	water	Boodo	Soluble	
	Soft Conversion Binding	Deaus	Solubla	
	water		Soluble	
	5X Soft Conversion Was	n Duller	Salubla	
	water	Buffor	Soluble	
	Soft Conversion Elution	DUIIEF	Salubla	
	water	Colution	Soluble	
	Soft Conversion Repair S	Solution	Salubla	
	water Library Binding Boads		Soluble	
	Library Binding Beads			
	-			

SECTION 9: Physical and chemical properties							
	water Capture Beads	Soluble					
	water Index Brimer Mix for U.	Soluble					
	Index Primer Mix for ILI water	Soluble					
	Index Primer Mix for ILI						
	water	Soluble					
Partition coefficient: n- octanol/water	: Nuclease-Free Water End Prep Buffer End Prep Enzyme	-1.38 Not applicable. Not applicable.					
	Ligation Buffer	Not applicable.					
	Ligation Enzyme	Not applicable.					
	Adapter for ILM	Not applicable.					
	Hyb Blocker	Not applicable.					
	Hyb Buffer	Not applicable.					
	Hyb Enhancer	Not applicable.					
	Soft Conversion Reagent A	Not applicable.					
	2X Methyl Amplification Mastermix	Not applicable.					
	Library Wash Buffer	Not applicable.					
	Hyb Wash Buffer 1	Not applicable.					
	Hyb Wash Buffer 2	Not applicable.					
	Soft Conversion Reagent B	Not applicable.					
	Soft Conversion Binding Beads	Not applicable.					
	5X Soft Conversion Wash Buffer	Not applicable.					
	Soft Conversion Elution Buffer	Not applicable.					
	Soft Conversion Repair Solution	Not applicable.					
	Library Binding Beads	Not applicable.					
	Capture Beads	Not applicable.					
	Index Primer Mix for ILM 17-24	Not applicable.					
	Index Primer Mix for ILM 25-32	Not applicable.					
Vapour pressure	: Nuclease-Free Water	2.3 kPa (17.5 mm Hg) [room temperature]					

SECTION Q. DH ما م ام

Vapour pressure

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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	our press	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
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						
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SECTION 9: Physica	l and chemical p	oropert	ies				
	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	-
	Hyb Buffer						
	water	17.5	2.3	-	92.258	12.3	-
	tetramethylammonium chloride	0.000000001	0.0000000013	EU A.4	-	-	-
	Hyb Enhancer						
	formamide	0.045	0.006	-	-	-	-
	Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.0000004	-	-	-	-
	Soft Conversion Reagent A tetrahydro-2-furyl-	1.4	0.19	-	_	-	-
	methanol 2X Methyl Amplification						
	Mastermix						
		17.5	2.3	-	92.258	12.3	-
	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	0.0000003	0.0000004	-	-	-	-
	Hyb Wash Buffer 1						
	water	17.5	2.3	-	92.258	12.3	-
	Hyb Wash Buffer 2						
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

 nt Kit with 17-32 Index Primer			eactions,		G9419E	
 water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Reagent B						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Binding Beads						
ethanol	42.94865	5.7	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-
5X Soft Conversion Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Elution Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Repair Solution						
water	17.5	2.3	-	92.258	12.3	-
Library Binding Beads						
water	17.5	2.3	-	92.258	12.3	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	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						
water	17.5	2.3	-	92.258	12.3	-

Evaporation rate :	Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer Soft Conversion	Not available.
	Reagent A	Not available.
	2X Methyl Amplification	Not available.
	Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	Beads	
	5X Soft Conversion	Not available.
	Wash Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	NL 6 CONTRACTOR
	Library Binding Beads	Not available.
	Capture Beads Index Primer Mix for ILM	Not available. Not available.
	17-24	NUL AVAIIADIE.
	Index Primer Mix for ILM	Not available.
	25-32	
		4
Deletive density		
Relative density :	Nuclease-Free Water	1 Not available
Relative density :	End Prep Buffer	Not available.
Relative density :	End Prep Buffer End Prep Enzyme	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer	Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	Not available. Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM	Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	Not available. Not available. Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	Not available. Not available. Not available. Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24	Not available. Not available.
Relative density :	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM	Not available. Not available.

J		
	25-32	
Vapour density :	Nuclease-Free Water	0.62 [Air = 1]
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	Not available.
	Reagent A	
	2X Methyl Amplification	Not available.
	Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	Beads	
	5X Soft Conversion	Not available.
	Wash Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	Not available.
	17-24	
	Index Primer Mix for ILM	Not available.
	25-32	
Explosive properties :	Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	Not available.
	Reagent A	
	2X Methyl Amplification	Not available.
	Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	Beads	
	5X Soft Conversion	Not available.
	Wash Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	N () () ()
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	Not available.
	17-24	

J		
	Index Primer Mix for ILM 25-32	Not available.
Oxidising properties :	Nuclease-Free Water	Not available.
- · ·	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	
	5	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	Not available.
	Reagent A	Natavalahla
	2X Methyl Amplification Mastermix	Not available.
		Netevoilable
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	Beads	Net even lette
	5X Soft Conversion	Not available.
	Wash Buffer Soft Conversion Elution	Not available.
	Buffer	Not avaliable.
	Soft Conversion Repair	Not available.
	Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Index Primer Mix for ILM	Not available.
	17-24	Not available.
	Index Primer Mix for ILM	Not available.
	25-32	
Partiala abaractoristica	20 02	
Particle characteristics		
Median particle size :	Nuclease-Free Water	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion	Not applicable.
	Reagent A	
	2X Methyl Amplification	Not applicable.
	Mastermix	
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion	Not applicable.
	Reagent B	
	Soft Conversion Binding	Not applicable.
	Beads	
	5X Soft Conversion	Not applicable.
	Wash Buffer	
	Soft Conversion Elution	Not applicable.
	Buffer	
	Soft Conversion Repair	Not applicable.
	Solution	Natanniachla
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.

SECTION 10. Stability and reactivity

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

9.2 Other information

No additional information.

0.1 Reactivity	: Nuclease-Free Water	No specific test data related to reactivity available for this
		product or its ingredients.
	End Prep Buffer	No specific test data related to reactivity available for this product or its ingredients.
	End Prep Enzyme	No specific test data related to reactivity available for this
		product or its ingredients.
	Ligation Buffer	No specific test data related to reactivity available for this
	3	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
	Hyb Enhancer	product or its ingredients. No specific test data related to reactivity available for this
	Typ Enhancer	product or its ingredients.
	Soft Conversion	No specific test data related to reactivity available for this
	Reagent A	product or its ingredients.
	2X Methyl Amplification	No specific test data related to reactivity available for this
	Mastermix	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
	o # o	product or its ingredients.
	Soft Conversion	No specific test data related to reactivity available for this
	Reagent B	product or its ingredients.
	Soft Conversion Binding Beads	No specific test data related to reactivity available for this product or its ingredients.
	5X Soft Conversion	No specific test data related to reactivity available for this
	Wash Buffer	product or its ingredients.
	Soft Conversion Elution	No specific test data related to reactivity available for this
	Buffer	product or its ingredients.
	Soft Conversion Repair	No specific test data related to reactivity available for this
	Solution	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
	Index Drive Min for U.M.	product or its ingredients.
	Index Primer Mix for ILM	
	17-24 Index Primer Mix for ILM	product or its ingredients. No specific test data related to reactivity available for this
	25-32	product or its ingredients.

SECTION TO. Stabili	ty and reactivity	
10.2 Chemical stability	: Nuclease-Free Water	The product is stable.
	End Prep Buffer	The product is stable.
	End Prep Enzyme	The product is stable.
	Ligation Buffer	The product is stable. The product is stable.
	Ligation Enzyme Adapter for ILM	The product is stable.
	Hyb Blocker	The product is stable.
	Hyb Buffer	The product is stable.
	Hyb Enhancer	The product is stable.
	Soft Conversion	The product is stable.
	Reagent A	
	2X Methyl Amplification Mastermix	The product is stable.
	Library Wash Buffer	The product is stable.
	Hyb Wash Buffer 1	The product is stable.
	Hyb Wash Buffer 2	The product is stable.
	Soft Conversion Reagent B	The product is stable.
	Soft Conversion Binding Beads	The product is stable.
	5X Soft Conversion Wash Buffer	The product is stable.
	Soft Conversion Elution Buffer	The product is stable.
	Soft Conversion Repair Solution	The product is stable.
	Library Binding Beads	The product is stable.
	Capture Beads	The product is stable.
	Index Primer Mix for ILM 17-24	The product is stable.
	Index Primer Mix for ILM 25-32	The product is stable.
10.3 Possibility of	: Nuclease-Free Water	Under normal conditions of storage and use, hazardous
hazardous reactions	End Prep Buffer	reactions will not occur. Under normal conditions of storage and use, hazardous
	·	reactions will not occur.
	End Prep Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ligation Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ligation Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
	Adapter for ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Blocker	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Enhancer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Soft Conversion	Under normal conditions of storage and use, hazardous
	Reagent A	reactions will not occur.
	2X Methyl Amplification	Under normal conditions of storage and use, hazardous
	Mastermix	reactions will not occur.
	Library Wash Buffer	Under normal conditions of storage and use, hazardous
		reactions will not occur.
	Hyb Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Wash Buffer 2	Under normal conditions of storage and use, hazardous
		reactions will not occur.
	Soft Conversion Reagent B	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION TO: STADI	, , , , , , , , , , , , , , , , , , ,	Under normal conditions of storage and use beganders
	Soft Conversion Binding Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
	5X Soft Conversion Wash Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Soft Conversion Elution Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Soft Conversion Repair Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
	Library Binding Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
	Capture Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
	Index Primer Mix for ILM 17-24	Under normal conditions of storage and use, hazardous reactions will not occur.
	Index Primer Mix for ILM 25-32	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	No specific data.
	Soft Conversion Reagent A	No specific data.
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition
	5X Soft Conversion	containers to heat or sources of ignition. No specific data.
	Wash Buffer Soft Conversion Elution Buffer	No specific data.
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.
10.5 Incompatible	: Nuclease-Free Water	May react or be incompatible with oxidising materials.
materials	End Prep Buffer	May react or be incompatible with oxidising materials.
	End Prep Enzyme	May react or be incompatible with oxidising materials.
	Ligation Buffer	May react or be incompatible with oxidising materials.
	Ligation Enzyme	May react or be incompatible with oxidising materials.
	Adapter for ILM	May react or be incompatible with oxidising materials.
	Hyb Blocker	May react or be incompatible with oxidising materials.
	Hyb Buffer	May react or be incompatible with oxidising materials.
	Hyb Enhancer	May react or be incompatible with oxidising materials.
	Soft Conversion Reagent A	May react or be incompatible with oxidising materials.
Date of issue/Date of revision	: 08/04/2024 Date of previous	s issue : 26/02/2024 Version : 1.1 68/89

	y and reactivity	
	2X Methyl Amplification Mastermix	May react or be incompatible with oxidising materials.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
	Reagent B Soft Conversion Binding Beads	Reactive or incompatible with the following materials:
		oxidising materials
	5X Soft Conversion Wash Buffer	May react or be incompatible with oxidising materials.
	Soft Conversion Elution Buffer	Reactive or incompatible with the following materials:
		acids
	Soft Conversion Repair Solution	May react or be incompatible with oxidising materials.
	Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
	Index Primer Mix for ILM 25-32	May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	Nuclease-Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	End Prep Buffer	Under normal conditions of storage and use, hazardous
	End Prep Enzyme	decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ligation Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ligation Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Adapter for ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Blocker	Under normal conditions of storage and use, hazardous
	Hyb Buffer	decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Enhancer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Soft Conversion	Under normal conditions of storage and use, hazardous
	Reagent A	decomposition products should not be produced.
	2X Methyl Amplification	Under normal conditions of storage and use, hazardous
	Mastermix Library Wash Buffer	decomposition products should not be produced. Under normal conditions of storage and use, hazardous
	Library Walth Barlor	decomposition products should not be produced.
	Hyb Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Soft Conversion	Under normal conditions of storage and use, hazardous
	Reagent B	decomposition products should not be produced.
	Soft Conversion Binding	Under normal conditions of storage and use, hazardous
	Beads	decomposition products should not be produced.
	5X Soft Conversion Wash Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Soft Conversion Elution	Under normal conditions of storage and use, hazardous
	Buffer	decomposition products should not be produced.
	Soft Conversion Repair	Under normal conditions of storage and use, hazardous
	Solution Library Binding Beads	decomposition products should not be produced. Under normal conditions of storage and use, hazardous
<u> </u>		

Index Primer Mix for ILM Under normal conditions of storage and use, hazardous 17-24 decomposition products should not be produced. Index Primer Mix for ILM 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.	i

S **TION 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	-
End Prep Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Hyb Buffer				
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	-
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .	LD50 Oral LD50 Oral	Rat Rat	20600 mg/kg 2800 mg/kg	-
alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			2000 Highly	
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat - Male Rabbit Rat	>21 mg/l 17 g/kg 5570 mg/kg	4 hours - -
Soft Conversion Binding Beads				
ethanol	LC50 Inhalation Vapour LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours -
salts of thiocyanic acid	LC50 Inhalation Dusts and mists LD50 Oral	Rat - Female Rat - Male, Female	3.181 mg/l 593 mg/kg	4 hours -
Poly(oxy-1,2-ethanediyl), . alpha[LD50 Oral	Rat	2800 mg/kg	-
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-				

Acute toxicity estimates

Product/ingr	edient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Date of issue/Date of revision	: 08/04/2024 Date	e of previous issue	: 26/02/2024		Version :1.1	70/89

SECTION 11: Toxicological information

End Prep Buffer Magnesium chloride	2800	N/A	N/A	N/A	N/A	
End Prep Enzyme Glycerol	12600	N/A	N/A	N/A	N/A	
Ligation Enzyme Glycerol	12600	N/A	N/A	N/A	N/A	
Hyb Buffer Hyb Buffer tetramethylammonium chloride Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	456.2 50 20600 500	2737.2 300 N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	
Hyb Enhancer Formamide	5570	17000	N/A	N/A	N/A	
Soft Conversion Binding Beads Soft Conversion Binding Beads ethanol salts of thiocyanic acid Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	2299.0 7000 593 500	5782.2 N/A 1100 N/A	N/A N/A N/A N/A	N/A 124.7 N/A N/A	16.7 N/A 3.181 N/A	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
End Prep Enzyme		· ·		•	
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Ligation Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Hyb Buffer Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Soft Conversion Binding Beads					
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100	-
	Eyes - Moderate irritant	Rabbit	-	mg 100 uL	-
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl)	Eyes - Severe irritant	Rabbit	-	1 %	-
phenyl]omegahydroxy-					

SECTION 11: Toxicological information

<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 tox	<u>kicity (single exposure)</u>

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Not available.

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

Potential acute health eff	fects	
Inhalation	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single exposure if
	5	inhaled.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent A	
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent B	5
	Soft Conversion Binding	Corrosive to the respiratory tract. Causes burns.
	Beads	
	5X Soft Conversion	No known significant effects or critical hazards.
	Wash Buffer	
	Soft Conversion Elution	No known significant effects or critical hazards.
	Buffer	No lucation distriction of the state of a state of the second
	Soft Conversion Repair	No known significant effects or critical hazards.
	Solution	
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILN	1 No known significant effects or critical hazards.
	17-24 Index Drimer Mix for ILA	A No known significant offects or critical bezords
	Index Primer Mix for ILN 25-32	1 No known significant effects or critical hazards.
Incontion		No known aignificant offacto ar critical bazarda
Ingestion	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Harmful if swallowed. Causes damage to organs following a
		single exposure if swallowed.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent A	5
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	,
	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.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent B	
	Soft Conversion Binding	Corrosive to the digestive tract. Causes burns.
	Beads	
	5X Soft Conversion	No known significant effects or critical hazards.
	Wash Buffer	
	Soft Conversion Elution	No known significant effects or critical hazards.
	Buffer	Ŭ
	Soft Conversion Repair	No known significant effects or critical hazards.
	Solution	Ŭ
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILN	
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	eregiea.	•
	17-24 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 hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single exposure in
		contact with skin. Causes skin irritation.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent A 2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	No known eignificant offects or critical beyonds
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent B Soft Conversion Binding	Causes severe burns.
	Beads 5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	Causes severe burns.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
	Index Primer Mix for ILM 25-32	No known significant effects or critical hazards.
Eye contact	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	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.
	Soft Conversion	Causes serious eye irritation.
	Reagent A	
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion	Causes serious eye irritation.
	Reagent B	oudoed benous eye initation.
	Soft Conversion Binding Beads	Causes serious eye damage.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	Causes serious eye damage.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads Capture Beads	No known significant effects or critical hazards. No known significant effects or critical hazards.
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SECTION II. TOXICON	ogical information	
	Index Primer Mix for ILM 17-24	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxic	cological characteristics
Inhalation :	Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	Soft Conversion	Adverse symptoms may include the following:
	Reagent A	/
	C	reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Methyl Amplification	No specific data.
	Mastermix	No exectific data
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2	No specific data. No specific data.
	Soft Conversion	No specific data.
	Reagent B	
	Soft Conversion Binding Beads	Adverse symptoms may include the following:
		respiratory tract irritation coughing
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	No specific data.
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.
Ingestion :	Nuclease-Free Water	No specific data.
0	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 Hyb Enhancer	No specific data. Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	Soft Conversion	Adverse symptoms may include the following:
	Reagent A	
		reduced foetal weight
		increase in foetal deaths skeletal malformations
	2X Methyl Amplification	No specific data.

	<u> </u>	
	Mastermix	
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion	No specific data.
	Reagent B	
		A durante en activitation de la construction de
	Soft Conversion Binding	Adverse symptoms may include the following:
	Beads	
		stomach pains
	5X Soft Conversion	No specific data.
		No specific data.
	Wash Buffer	
	Soft Conversion Elution	Adverse symptoms may include the following:
	Buffer	
	Ballol	stomach naina
		stomach pains
	Soft Conversion Repair	No specific data.
	Solution	
	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.
	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
	Llub Enhancer	
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	0.4.0	
	Soft Conversion	Adverse symptoms may include the following:
	Reagent A	
	-	reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Methyl Amplification	No specific data.
	Mastermix	
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion	No specific data.
	Reagent B	
		Adverse eventeres may include the following
	Soft Conversion Binding	Adverse symptoms may include the following:
	Beads	
		pain or irritation
		redness
		blistering may occur
	5X Soft Conversion	No specific data.
	Wash Buffer	
	Soft Conversion Elution	Adverse symptoms may include the following:
		Adverse symptoms may molude the following.
	Buffer	
		pain or irritation
		redness
		blistering may occur
	Soft Conversion Demain	• •
	Soft Conversion Repair	No specific data.
	Solution	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Suptrio Doudo	
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	ological information	
	Index Primer Mix for ILM 17-24	No specific data.
	Index Primer Mix for ILM 25-32	No specific data.
Eye contact	: Nuclease-Free Water	No specific data.
-	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
	Hyb Enhancer	No specific data.
	Soft Conversion Reagent A	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion	Adverse symptoms may include the following:
	Reagent B	pain or irritation
		watering
		redness
	Soft Conversion Binding Beads	Adverse symptoms may include the following:
		pain
		watering
		redness
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following:
		pain
		watering
		redness
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Index Primer Mix for ILM 17-24	·
	Index Primer Mix for ILM 25-32	No specific data.
	ffects as well as chronic effe	ects from short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	

Potential delayed effects	: Not available.	
Potential chronic health	<u>effects</u>	
Conclusion/Summary	: Not available.	
General	: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
	Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	 Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution 	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.
	Buffer Soft Conversion Repair	No known significant effects or critical hazards.
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	Solution	
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads Index Primer Mix for ILM	No known significant effects or critical hazards. No known significant effects or critical hazards.
	17-24 Index Primer Mix for ILM	No known significant effects or critical hazards.
Mutaganiaity	25-32	No known aignificant affacta ar aritical bazarda
Mutagenicity	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme Adapter for ILM	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent A	-
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent B Soft Conversion Binding	No known significant effects or critical hazards.
	Beads 5X Soft Conversion	No known significant effects or critical hazards.
	Wash Buffer Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Index Primer Mix for ILM 17-24	
		No known significant effects or critical hazards.
Reproductive toxicity	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	May damage fertility or the unborn child.
	Soft Conversion	May damage fertility. May damage the unborn child.
	Reagent A 2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent B Soft Conversion Binding	No known significant effects or critical hazards.
	Beads 5X Soft Conversion	No known significant effects or critical hazards.
	Wash Buffer Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair	No known significant effects or critical hazards.
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	Solution
	Library Binding Beads No known significant effects or critical hazards.
	Capture Beads No known significant effects or critical hazards.
	Index Primer Mix for ILM No known significant effects or critical hazards. 17-24
	Index Primer Mix for ILM No known significant effects or critical hazards. 25-32
Other information	: End Prep Buffer Adverse symptoms may include the following: May cause skin sensitisation.
	Adapter for ILM Adverse symptoms may include the following: May cause skin sensitisation.
	Hyb EnhancerAdverse symptoms may include the following: May cause eye irritation. May cause skin irritation.

SECTION 12: Ecological information

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Product/ingredient name	Result	Species	Exposure
End Prep Buffer			
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus	72 hours
	Acute EC50 180000 µg/l Fresh water	<i>subspicatus</i> Crustaceans - Calanoid	48 hours
	Acute 2000 100000 µg/11 resit water	copepod - Eudiaptomus	
		padanus ssp. padanus - Adult	
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lesser	96 hours
		Duckweed - <i>Lemna</i>	
	Acute LC50 32000 µg/l Fresh water	<i>aequinoctialis</i> Daphnia - Water flea - <i>Daphnia</i>	48 hours
	Acute LC50 52000 µg/l Flesh water	hyalina - Adult	40 110015
	Acute LC50 2120 mg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	05 1
	Chronic NOEC 0.1 mg/l Fresh water	Fish - common carp - <i>Cyprinus carpio</i>	35 days
		carpio	
End Prep Enzyme			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
		mykiss	
Ligation Enzyme			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
,		mykiss	
U D ffer			
Hyb Buffer tetramethylammonium	Acute LC50 462 mg/l Fresh water	Fish - Fathead minnow -	96 hours
chloride	Acute 2000 402 mg/11/con water	Pimephales promelas	
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 µg/l Fresh water	Algae - Green algae -	96 hours
alpha[Selenastrum sp.	
(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-	Acute LC50 10800 µg/l Marine water	Crustaceans - Aesop shrimp -	48 hours
		Pandalus montagui - Adult	io nouro
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna	001
	Acute LC50 7200 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - 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 Acute NOEC 4640 mg/l Fresh water	Fish	96 hours 72 hours
	Touce NOLO 4040 IIIg/I Flesh Waler	Algae	12 HOUIS

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	A suite NOEC 4640 mag// Ereah water	Fish	OC haven
	Acute NOEC 4640 mg/l Fresh water	FISH	96 hours
Soft Conversion Reagent A			
tetrahydro-2-furyl-methanol	Acute EC50 >98.9 mg/l	Algae - Algae	72 hours
tetranyuro-z-ruryi-methanoi	Acute EC50 >98.9 mg/l	0	48 hours
	Acute EC30 >91.7 mg/l	Daphnia - Daphnia - <i>Daphnia</i>	40 110015
	Acute LC50 >101 mg/l	<i>magna</i> Fish - Goldfish	96 hours
	Acute EC30 > 101 mg/l	Fish - Goldiish	90 110015
Soft Conversion Binding			
Beads			
ethanol	Acute EC50 3306 mg/l Marine water	Algae - Green algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 1074 mg/l Fresh water	Crustaceans - Ostracod -	48 hours
		Cypris subglobosa	
	Acute EC50 2 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna	
	Acute LC50 11000000 μg/l Marine water	Fish - Bleak - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - Green algae - <i>Ulva</i> pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	, Daphnia - Water flea - <i>Daphnia</i> <i>magna</i> - Neonate	21 days
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl)	Acute EC50 210 μg/l Fresh water	Algae - Green algae - Selenastrum sp.	96 hours
phenyl]omegahydroxy-		Omusta a su a la su a la sina a	40 h a
	Acute LC50 10800 µg/l Marine water	Crustaceans - Aesop shrimp - <i>Pandalus montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> <i>magna</i>	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
End Prep Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Hyb Enhancer Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	-	92 % - Readily - 28 days	-	-
Soft Conversion Binding Beads salts of thiocyanic acid	OECD 302B	46 % - Inherent - 28 days	-	-
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SECTION 12: Ecological information

SECTION 12. ECOID		
	Inherent Biodegradability: Zahn-Wellens/ EMPA Test	
Conclusion/Summary	Not available	

Conclusion/Summary :	Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease-Free Water water	-	-	Readily
Hyb Buffer tetramethylammonium chloride	-	-	Readily
Hyb Enhancer Formamide	-	-	Readily
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	-	-	Readily
Soft Conversion Binding Beads			
ethanol salts of thiocyanic acid	-		Readily Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	Low
End Prep Enzyme Glycerol	-1.76	-	Low
Ligation Enzyme Glycerol	-1.76	-	Low
Hyb Buffer			
tetramethylammonium chloride	<-1.6	-	Low
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
Hyb Enhancer			
Formamide	-0.82	-	Low
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	0.722	-	Low
Soft Conversion Binding Beads			
ethanol	-0.35	0.5	Low
salts of thiocyanic acid Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	<-1.7 2.7	- 78.67	Low Low

12.4 Mobility in soil

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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		Not applicable (Inorganic)	N/A	N/A

12.6 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	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: Dispose of material(s) and residues under controlled conditions. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	11	II	II
14.5 Environmental hazards	No.	No.	No.

Additional information

Remarks: Excepted Quantity

SECTION 14: Transport information

	•
ADR/RID	: <u>Hazard identification number</u> 90 <u>Limited quantity</u> See SP 251 <u>Special provisions</u> 251, 340, 671 <u>Tunnel code</u> (E)
IMDG	: <u>Emergency schedules</u> F-A, _S-P_ <u>Special provisions</u> 251, 340
ΙΑΤΑ	 <u>Quantity limitation</u> Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960. <u>Special provisions</u> A44, A163
14.6 Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Hyb Buffer Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012
Hyb Enhancer Toxic to reproduction	formamide	Candidate	-	6/18/2012
Soft Conversion Binding Beads Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants Not listed.

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

SECTION 15: Regulatory information

S	ECTION 15: Regulat	ory information	ation		
	Product / Ingredient name		Identifiers		Status
	End Prep Buffer				
	End Prep Buffer				3
	Hyb Buffer				-
	Hyb Buffer				3
	Hyb Enhancer				
	Hyb Enhancer				3
					30
	Formamide				30
	Soft Conversion Reagent A	4			_
	Soft Conversion Reagent A				3
	totrohydro 2 fund mothonol				30 30
	tetrahydro-2-furyl-methanol				
	Soft Conversion Reagent E	3			
	Soft Conversion Reagent B				3
	ammonium hydrogensulphite)			65
	Soft Conversion Binding B				
	Soft Conversion Binding Bea	Ids			3
	Soft Conversion Elution Bu	uffer			
	Soft Conversion Elution Buffe				3
	Label :	Nuclease-Free	Water	Not applicable	
	Label .	End Prep Buffe		Not applicable	
		End Prep Enzyr		Not applicable	
		Ligation Buffer		Not applicable	
		Ligation Enzym	e	Not applicable	9.
		Adapter for ILM		Not applicable	
		Hyb Blocker		Not applicable	
		Hyb Buffer		Not applicable	
		Hyb Enhancer Soft Conversior	Peagent A		professional users. professional users.
		2X Methyl Ampl		Not applicable	
		Mastermix			
		Library Wash B		Not applicable	
		Hyb Wash Buffe		Not applicable	
		Hyb Wash Buffe		Not applicable	
		Soft Conversion	-	Not applicable	
		Soft Conversior Beads	пынанд	Not applicable	5.
		5X Soft Convers	sion Wash	Not applicable	
		Buffer			
			n Elution Buffer		
		Soft Conversion	n Repair	Not applicable	9.
		Solution	Desite		
		Library Binding	Beads	Not applicable	
		Capture Beads	ix for ILM 17-24	Not applicable	
			ix for ILM 25-32		
c	eveso Directive				
2			D: //		

This product is not controlled under the Seveso Directive.

Danger criteria

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

SECTION 15: Regulatory information

SECTION 15: Reg	gulatory information
Category	
Hyb Buffer H3	
Soft Conversion Bin P5c E1	ding Beads
EU regulations	
Industrial emissions (integrated pollution prevention and contro Air	: Not listed
Industrial emissions (integrated pollution prevention and contro Water	: Not listed
15.2 Chemical safety assessment	 This product contains substances for which Chemical Safety Assessments might still be required.
International regulation	<u>s</u>
Chemical Weapon Cor Not listed.	vention List Schedules I, II & III Chemicals
Montreal Protocol Not listed.	
Stockholm Convention Not listed.	n on Persistent Organic Pollutants
Rotterdam Convention	n on Prior Informed Consent (PIC)
UNECE Aarhus Protoc Not listed.	ol on POPs and Heavy Metals
Inventory list	
United States	: Not determined.
SECTION 16: Oth	er information
Indicates information	that has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement

N/A = Not available

Procedure used to derive the classification

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

SECTION 16: Other information

1	Classification	Justification				
End Prep Buffe	r					
Aquatic Chronic		Calculation method				
Hyb Buffer						
Acute Tox. 4, H		Calculation method				
Skin Irrit. 2, H31	5	Calculation method				
STOT SE 1, H3		Calculation method				
Aquatic Chronic	3, H412	Calculation method				
Hyb Enhancer						
Carc. 2, H351		Calculation method				
Repr. 1B, H360		Calculation method				
STOT RE 2, H3	73	Calculation method				
Soft Conversio	n Reagent A					
Eye Irrit. 2, H31		Calculation method				
Repr. 1B, H360		Calculation method				
Soft Comunic	n Deerent D					
Soft Conversion Eye Irrit. 2, H31	-	Calculation method				
	5					
	n Binding Beads					
Flam. Liq. 3, H2		On basis of test data				
Skin Corr. 1C, F	l314	Calculation method				
Aquatic Acute 1	, H400	Calculation method				
Aquatic Chronic	2, H411	Calculation method				
Soft Conversio	n Elution Buffer					
Skin Corr. 1, H3	14	On basis of test data				
Full text of abb	reviated H statements					
End Prep						
Buffer						
H410						
	Very toxic to aquatic life with long lasting effects	Very toxic to aquatic life with long lasting effects.				
-						
H410 H412	Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.					
H412						
H412 Hyb Buffer						
H412 Hyb Buffer H300	Harmful to aquatic life with long lasting effects. Fatal if swallowed.					
H412 Hyb Buffer H300 H302	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed.					
H412 Hyb Buffer H300 H302 H311	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin.					
H412 Hyb Buffer H300 H302 H311 H315	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation.					
H412 Hyb Buffer H300 H302 H311 H315 H318	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411 H412 Hyb Enhancer	 Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. 					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411 H412 Hyb Enhancer H351	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Suspected of causing cancer.					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H410 H411 H412 Hyb Enhancer H351 H360	 Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Suspected of causing cancer. May damage fertility or the unborn child. 					
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411 H412 Hyb Enhancer H351	Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Suspected of causing cancer.	epeated exposure.				
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H410 H411 H412 Hyb Enhancer H351 H360	 Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Suspected of causing cancer. May damage fertility or the unborn child. 	epeated exposure.				
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411 H412 Hyb Enhancer H351 H360 H373 Soft	 Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Suspected of causing cancer. May damage fertility or the unborn child. 	epeated exposure.				
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411 H412 Hyb Enhancer H351 H360 H373 Soft Conversion	 Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Suspected of causing cancer. May damage fertility or the unborn child. 	epeated exposure.				
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411 H412 Hyb Enhancer H351 H360 H373 Soft Conversion Reagent A	 Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or response of the second second	epeated exposure.				
H412 Hyb Buffer H300 H302 H311 H315 H318 H319 H335 H370 H400 H410 H411 H412 Hyb Enhancer H351 H360 H373 Soft Conversion	 Harmful to aquatic life with long lasting effects. Fatal if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Suspected of causing cancer. May damage fertility or the unborn child. 	epeated exposure.				

SECTION 16: Other information

Conversion		
Reagent B		
-	Causes serious eye irritation.	
	Contact with acids liberates toxic gas.	
_011001		
Soft		
Conversion		
Binding Beads		
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
	Causes severe skin burns and eye damage.	
	Causes skin irritation.	
	Causes serious eye damage.	
H319	Causes serious eye irritation.	
	•	
	Harmful if inhaled.	
	Very toxic to aquatic life.	
	Very toxic to aquatic life with long lasting effects.	
	Toxic to aquatic life with long lasting effects.	
	Harmful to aquatic life with long lasting effects.	
	Contact with acids liberates very toxic gas.	
EUH071	Corrosive to the respiratory tract.	
Soft		
Conversion		
Elution Buffer		
-1314	Causes severe skin burns and eye damage.	
ull text of classi	ifications	
End Prep Buffer		
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1 Aquatic Chronic 3		
Aquatic Chronic 3 Hyb Buffer	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Aquatic Chronic 3 Hyb Buffer Acute Tox. 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ACUTE TOXICITY - Category 2	
Aquatic Chronic 3 Hyb Buffer Acute Tox. 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Aquatic Chronic 3 Hyb Buffer Acute Tox. 2 Acute Tox. 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3	
Aquatic Chronic 3 Hyb Buffer Acute Tox. 2 Acute Tox. 3 Acute Tox. 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4	
Aquatic Chronic 3 Hyb Buffer Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 3 H yb Buffer Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Aquatic Chronic 3 Hyb Buffer Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3 Hyb Buffer Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3	 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 	
Aquatic Chronic 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	 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 	
Aquatic Chronic 3 Hyb Buffer Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Tox. 4 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2	 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 	
Aquatic Chronic 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	 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 	
Aquatic Chronic 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	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 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	
Aquatic Chronic 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	 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 	
Aquatic Chronic 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 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 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	
Aquatic Chronic 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 1 STOT SE 3	 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 	
Aquatic Chronic 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 1 STOT SE 3 Hyb Enhancer Carc. 2	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 3 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 CARCINOGENICITY - Category 2	
Aquatic Chronic 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 Stot SE 1 STOT SE 1 STOT SE 3 Hyb Enhancer Carc. 2 Repr. 1B	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 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 CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 1B	
Aquatic Chronic 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 1 STOT SE 3 Hyb Enhancer Carc. 2 Repr. 1B	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 3 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 CARCINOGENICITY - Category 2	
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SECTION 16: Other information

Soft Conversion			
Binding Beads			
Acute Tox. 4	ACUTE TOXICITY - Category 4		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1		
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1		
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2		
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3		
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Soft Conversion			
Elution Buffer			
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1		
Date of issue/ Date of	: 08/04/2024		
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