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

SAFETY DATA SHEET



Avida DNA Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9418B

SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : Avida DNA Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9418B UK (GB) REACH Registration number **Registration number** Legal entity **Nuclease-Free Water** Exempt from REACH: According to the provisions of Article 2(7)(a) and Annex IV of REACH **CAS** number : Nuclease-Free Water 7732-18-5 Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 **Resuspension Buffer** Not applicable. End Prep Buffer Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Not applicable. Adapter for ILM Hyb Blocker Not applicable. Hvb Buffer Not applicable. Hvb Enhancer Not applicable. 2X Amplification Not applicable. Mastermix Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs Not applicable. 97-192 for ILM Part no. (chemical kit) : G9418B Part no. . Avida DNA and Duo Reagent Box 2, 96 5282-0142 Reactions Nuclease-Free Water 5271-0134 Library Wash Buffer 5271-0130 Hyb Wash Buffer 1 5271-0131 Hyb Wash Buffer 2 5271-0132 **Resuspension Buffer** 5271-0133 Avida DNA Reagent Box 1, 96 Reactions 5282-0140 End Prep Buffer 5271-0121 End Prep Enzyme 5271-0122 Ligation Buffer 5271-0123 Ligation Enzyme 5271-0124 Adapter for ILM 5271-0139 Hyb Blocker 5271-0126 Hyb Buffer 5271-0127 Hyb Enhancer 5271-0128 2X Amplification Mastermix 5271-0129 Avida Beads Box, 96 Reactions 5282-0144 Library Binding Beads 5271-0135 Capture Beads 5271-0136 Avida Index Primer Pairs 97 -192 for ILM 5280-0056 Avida Index Primer Pairs 97-192 for ILM 5274-0080 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

: Analytical reagent. For research use only.

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

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 **Resuspension Buffer** End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM : Not for use in diagnostic procedures.

5.76 ml (96 reactions) 2 x 21.12 ml (96 reactions) 2 x 31.68 ml (96 reactions) 2 x 18.24 ml (96 reactions) 2.364 ml (96 reactions) 0.877 ml (96 reactions) 0.351 ml (96 reactions) 2.96 ml (96 reactions) 0.695 ml (96 reactions) 0.588 ml (96 reactions) 0.349 ml (96 reactions) 5.524 ml (96 reactions) 0.988 ml (96 reactions) 2.94 ml (96 reactions) 10.083 ml (96 reactions) 0.944 ml (96 reactions) 96 x 0.005 ml

Uses advised against

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd. 5500 Lakeside Cheadle Royal Business Park, Cheadle, Cheshire, SK8 3GR United Kingdom Tel: +44 (0) 345 712 5292 e-mail address of person : pdl-msds_author@agilent.com responsible for this SDS

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Capture Beads Mixture Capture Beads Mixture Avida Index Primer Pairs Mixture 97-192 for ILM	H R E Li Li A H H H Li C A	vida Index Primer Pairs	
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Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

End Prep Buffer H412	LONG-TERM (CHRON	NIC) AQUATIC HAZARD	Category 3
Hyb Buffer H302 H315	ACUTE TOXICITY (or SKIN CORROSION/IF		Category 4 Category 2
H370		RGAN TOXICITY - SINGLE EXPOSURE	Category 1
H412		NIC) AQUATIC HAZARD	Category 3
Hyb Enhancer			
H351	CARCINOGENICITY		Category 2
H360	REPRODUCTIVE TO		Category 1B
H373	SPECIFIC TARGET C EXPOSURE	ORGAN TOXICITY - REPEATED	Category 2
Nuclease-Free Water		The product is not classified as hazardou	is according to UK CLP
Library Wash Buffer		Regulation SI 2019/720 as amended. The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Hyb Wash Buffer 1		The product is not classified as hazardou	is according to UK CLP
Hyb Wash Buffer 2		Regulation SI 2019/720 as amended. The product is not classified as hazardou	is according to UK CLP
Resuspension Buffer		Regulation SI 2019/720 as amended. The product is not classified as hazardou	is according to UK CLP
End Prep Buffer		Regulation SI 2019/720 as amended. The product is classified as hazardous a Regulation SI 2019/720 as amended.	ccording to UK CLP
End Prep Enzyme		The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Ligation Buffer		The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Ligation Enzyme		The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Adapter for ILM		The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Hyb Blocker		The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Hyb Buffer		The product is classified as hazardous a	ccording to UK CLP
Hyb Enhancer		Regulation SI 2019/720 as amended. The product is classified as hazardous a Regulation SI 2019/720 as amended.	ccording to UK CLP
2X Amplification Mastern	nix	The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Library Binding Beads		The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Capture Beads		The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Avida Index Primer Pairs	97-192 for ILM	The product is not classified as hazardou Regulation SI 2019/720 as amended.	is according to UK CLP
Ingredients of unknown	n : Library Wash Bu		
toxicity	Hyb Wash Buffe		sisting of ingredient(s) of
	End Prep Buffer		sisting of ingredient(s) of
	End Prep Enzyn		sisting of ingredient(s) of
	Ligation Buffer	unknown acute inhalation toxic Percentage of the mixture con unknown acute inhalation toxic	sisting of ingredient(s) of
	Ligation Enzyme		sisting of ingredient(s) of
	Hyb Buffer	Percentage of the mixture con unknown acute dermal toxicity	sisting of ingredient(s) of
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		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
	Hyb Enhancer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	2X Amplification Mastermix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	Library Binding Beads	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
Ingredients of unknown a cotoxicity	Hyb Buffer	Contains 3.4% of components with unknown hazards to the aquatic environment

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

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

2.2 Label elements

Hazard pictograms

: Hyb Buffer

Hyb Enhancer



Signal word	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	No signal word. No signal word. Danger Danger No signal word. No signal word.
Hazard statements	: Nuclease-Free Water Library Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects. No known significant effects or critical hazards. No known significant effects or critical hazards. H302 - Harmful if swallowed. H315 - Causes skin irritation. H370 - Causes damage to organs. H412 - Harmful to aquatic life with long lasting effects. H351 - Suspected of causing cancer.
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		2X Amplification Mastermix Library Binding Beads	 H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
		Capture Beads Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Precautionary statements		97-192 IOI ILIVI	
Prevention		Nuclease-Free Water	Netapplicable
Prevention	-	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	Not applicable. Not applicable. Not applicable. Not applicable. P273 - Avoid release to the environment. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P280 - Wear protective gloves. P273 - Avoid release to the environment. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product. P201 - Obtain special instructions before use.
		2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	
Response	:	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification	Not applicable. Not applicable. P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor. P308 + P313 - IF exposed or concerned: Get medical advice or attention. Not applicable.
		Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	Not applicable. Not applicable.

SECTION 2. Mazarus		
Storage	: Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	2X Amplification	Not applicable.
	Mastermix	Netappliable
	Library Binding Beads Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable. Not applicable.
	97-192 for ILM	not applicable.
Disposal	: Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	P501 - Dispose of contents and container in accordance with
		all local, regional, national and international regulations.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P501 - Dispose of contents and container in accordance with
		all local, regional, national and international regulations.
	Hyb Enhancer	P501 - Dispose of contents and container in accordance with
	2X Amplification	all local, regional, national and international regulations. Not applicable.
	Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	
	97-192 for ILM	
Hazardous ingredients	: Hyb Buffer	tetramethylammonium chloride
5	Hyb Enhancer	formamide
Supplemental label	: Nuclease-Free Water	Not applicable.
elements	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Safety data sheet available on request.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Safety data sheet available on request.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	2X Amplification Mastermix	Safety data sheet available on request.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	
	97-192 for ILM	····

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	Nuclease-Free Water	Not applicable.
on the manufacture,	Library Wash Buffer	Not applicable.
placing on the market	Hyb Wash Buffer 1	Not applicable.
and use of certain	Hyb Wash Buffer 2	Not applicable.
dangerous substances,	Resuspension Buffer	Not applicable.
mixtures and articles	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Restricted to professional users.
	2X Amplification	Not applicable.
	Mastermix	Natangliaghla
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	97-192 for ILM	
Special packaging requirement	<u>ents</u>	
Containers to be fitted :	Nuclease-Free Water	Not applicable.
with child-resistant	Library Wash Buffer	Not applicable.
fastenings	Hyb Wash Buffer 1	Not applicable.
-	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	2X Amplification	Not applicable.
	Mastermix	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	97-192 for ILM	
Tactile warning of :	Nuclease-Free Water	Not applicable.
danger	Library Wash Buffer	Not applicable.
_	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	2X Amplification	Not applicable.
	Mastermix	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	97-192 for ILM	

2.3 Other hazards

SECTION 2: Hazard								
Product meets the criteria for PBT or vPvB	:	PBT	Р	В	Т	vPvB	vP	vB
according to Regulation (EC) No. 1907/2006, Annex XIII		Nuclease- Free Water Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A
		Library Wash	Buffer			contain any	substances	that are
		Hyb Wash Bu	ffer 1	This mixtu		Γor a vPvB. contain any∍ Γor a vPvΒ	substances	that are
		Hyb Wash Bu	ffer 2	This mixtu		contain any	substances	that are
		Resuspension	Buffer	This mixtu		contain any	substances	that are
		End Prep Buff	er	This mixtu		contain any	substances	that are
		End Prep Enz	yme	This mixtu		contain any	substances	that are
		Ligation Buffe	r	This mixtu	ure does not	: contain any∍ Γor a vPvB.	substances	that are
		Ligation Enzyr		assessed	to be a PBT			
		Adapter for IL	M	assessed	to be a PBT			
		Hyb Blocker		assessed	to be a PBT			
		Hyb Buffer	_	assessed	to be a PBT	contain any or a vPvB.		
		Hyb Enhancer		assessed	to be a PBT	: contain any Γor a vPvB.		
		2X Amplification	UN			: contain any∍ ⊺ or a vPvB.	substances	inal are
		Library Binding	g Beads	This mixtu	ire does not	contain any or a vPvB.	substances	that are
		Capture Bead	S	This mixtu		contain any	substances	that are
		Avida Index P 97-192 for ILN				∶contain any Γor a vPvB.	substances	that are
Other hazards which do not result in classification		Nuclease-Free Library Wash Hyb Wash Bur Resuspension End Prep Buff End Prep Enz Ligation Buffe Ligation Enzyr Adapter for ILI Hyb Blocker Hyb Blocker Hyb Enhancer 2X Amplification Mastermix Library Binding Capture Bead Avida Index P 97-192 for ILM	Buffer ffer 1 ffer 2 n Buffer ger yme r me M M on g Beads s rimer Pairs	None kno None kno	wn. wn. wn. wn. wn. wn. wn. wn. wn. wn.			

SECTION 3: Composition/information on ingredients

Library Bind Capture Be	h Buffer Mixture Buffer 1 Mixture Buffer 2 Mixture on Buffer Mixture uffer Mixture nzyme Mixture fer Mixture tyme Mixture ILM Mixture ing Beads Mixture
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Product/ingredient name	Identifiers	%	Classification	Туре
Nuclease-Free Water water	UK (GB) REACH #: Annex IV REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	[1]
End Prep Buffer Magnesium chloride	EC: 232-094-6 CAS: 7786-30-3	<2.5	Aquatic Chronic 1, H410 (M=1)	[1]
End Prep Enzyme Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
Ligation Enzyme Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
Hyb Buffer tetramethylammonium chloride	EC: 200-880-8 CAS: 75-57-0	≥10 - <15	Acute Tox. 2, H300 Acute Tox. 3, H311 Skin Irrit. 2, H315 STOT SE 1, H370 (central nervous system (CNS)) (oral) Aquatic Chronic 2,	[1]
Dextran sulfate sodium	CAS: 9011-18-1	≤3	H411 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	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]
Hyb Enhancer				
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SECTION 3: Composition/information on ingredients

SECTION 5. Composition/information on ingredients						
Formamide	EC: 200-842-0 CAS: 75-12-7	≥90	Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 (blood) (oral)	[1] [2]		
2X Amplification Mastermix						
Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified.	[1]		
			See Section 16 for the full text of the H statements declared above.			

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

Туре	
Nuclease-Free Water	[1] Constituent
End Prep Buffer	[1] Substance classified with a health or environmental hazard
End Prep Enzyme	[1] Substance with a workplace exposure limit
Ligation Enzyme	[1] Substance with a workplace exposure limit
Hyb Buffer	[1] Substance classified with a health or environmental hazard
	[2] Substance of equivalent concern
Hyb Enhancer	[1] Substance classified with a health or environmental hazard
	[2] Substance with a workplace exposure limit
2X Amplification Mastermix	[1] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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

	Hyb Buffer	lifting the upper and lower eyelids. Check for and remove 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. 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.
	2X Amplification Mastermix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
	Library Binding Beads	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
	Capture Beads	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.
	Avida Index Primer Pairs 97-192 for ILM	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Nuclease-Free Water	Remove victim to fresh air and keep at rest in a position 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.
	Resuspension Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	End Prep Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	End Prep Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Ligation Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may
	Ligation Enzyme	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.
	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

Avida DNA Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9418B **SECTION 4: First aid measures** dangerous to the person providing aid to give mouth-tomouth 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

Skin contact

	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
2X Amplification	medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position
Mastermix	comfortable for breathing. Get medical attention if symptoms occur.
Library Binding Beads	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms
Capture Beads	occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Avida Index Primer Pa 97-192 for ILM	irs Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
: Nuclease-Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Library Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Hyb Wash Buffer 1	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Hyb Wash Buffer 2	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Resuspension Buffer	symptoms occur. 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
Ligation Buffer	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Ligation Enzyme	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Adapter for ILM	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
Hyb Blocker	symptoms occur. Flush contaminated skin with plenty of water. Remove

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SECTION 4: First aid measures

Ingestion

notura	incusures	
		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
	Hyb Enhancer	poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes
	2X Amplification Mastermix	thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Library Binding Beads	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	Capture Beads	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	Avida Index Primer Pairs 97-192 for ILM	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
:	Nuclease-Free Water	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Library Wash Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Hyb Wash Buffer 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Hyb Wash Buffer 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Resuspension Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	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
	End Prep Enzyme	so by medical personnel. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if 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.

: First aid measures			
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		
Adapter for ILM	occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms		
Hyb Blocker	occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.		
Hyb Buffer	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical 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.		
2X 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 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.		
Avida Index Primer Pairs 97-192 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.		

SECTION 4:

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Protection of first-aiders	1	Nuclease-Free Water	No action shall be taken involving any personal risk or without
			suitable training.
		Library Wash Buffer	No action shall be taken involving any personal risk or without
		Luch March Duffer 1	suitable training.
		Hyb Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
		Hyb Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
		Resuspension Buffer	No action shall be taken involving any personal risk or without suitable training.
		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.
		Adapter for ILM	No action shall be taken involving any personal risk or without suitable training.
		Hyb Blocker	No action shall be taken involving any personal risk or without suitable training.
		Hyb Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		Hyb Enhancer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self- contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
			Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
		2X Amplification Mastermix	No action shall be taken involving any personal risk or without suitable training.
		Library Binding Beads	No action shall be taken involving any personal risk or without suitable training.
		Capture Beads	No action shall be taken involving any personal risk or without suitable training.
		Avida Index Primer Pairs 97-192 for ILM	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness
	Hyb Enhancer	No specific data.
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.

	Avida Index Primer Pairs 97-192 for ILM	No specific data.
Inhalation :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		-
		increase in foetal deaths
		skeletal malformations
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	•	•
	Avida Index Primer Pairs 97-192 for ILM	No specific data.
Skin contact :	Nuclease-Free Water	No aposifia data
Skill contact .		No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
		•
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
	2	irritation
		redness
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	97-192 for ILM	•
Ingestion :	Nuclease-Free Water	No specific data.
U	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	-	•
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths

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2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs No specific data. 97-192 for ILM

skeletal malformations No specific data.

No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

4.	s indication of any immed	liate medical attention and s	special treatment needed
N	Notes to physician	: Nuclease-Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Library Wash Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Hyb Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist
		Hyb Wash Buffer 2	immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist
		Resuspension Buffer	immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		End Prep Buffer	immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need
			to be kept under medical surveillance for 48 hours.
		End Prep Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Ligation Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need
			to be kept under medical surveillance for 48 hours.
		Ligation Enzyme	Treat symptomatically. Contact poison treatment specialist
		5 ,	immediately if large quantities have been ingested or inhaled.
		Adapter for ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Hyb Blocker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Hyb Buffer	In case of inhalation of decomposition products in a fire,
			symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		Hyb Enhancer	In case of inhalation of decomposition products in a fire,
		,	symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		2X Amplification	Treat symptomatically. Contact poison treatment specialist
		Mastermix	immediately if large quantities have been ingested or inhaled.
		Library Binding Beads	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Capture Beads	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Avida Index Primer Pairs 97-192 for ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
8	Specific treatments	: Nuclease-Free Water	No specific treatment.
		Library Wash Buffer	No specific treatment.
		Hyb Wash Buffer 1	No specific treatment.
		Hyb Wash Buffer 2 Resuspension Buffer	No specific treatment. No specific treatment.
		End Prep Buffer	No specific treatment.
		End Prep Enzyme	No specific treatment.
		Ligation Buffer	No specific treatment.
		Ligation Enzyme	No specific treatment.
		Adapter for ILM	No specific treatment.
		Hyb Blocker	No specific treatment.
		Hyb Buffer Hyb Enhancer	No specific treatment. No specific treatment.
		2X Amplification	No specific treatment.
		Mastermix Library Binding Beads	No specific treatment.
		Library Diriding Deads	

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Capture Beads No specific treatment. Avida Index Primer Pairs No specific treatment. 97-192 for ILM

SECTION 5: Firefighting measures

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5.1 Extinguishing media		
Suitable extinguishing media	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	None known. None known.
5.2 Special hazards arising	from the substance or mixt	ture
Hazards from the	: Nuclease-Free Water	In a fire or if heated, a pressure increase will occur and the
substance or mixture	Library Wash Buffer	container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	Resuspension Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	End Prep Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life

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.

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SECTION 5: Firefighting measures

SECTION 5. Thengi	iting measures	
	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
	Hyb Blocker	container may burst. 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.
	2X Amplification Mastermix Library Binding Beads	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
	Capture Beads	In a fire or if heated, a pressure increase will occur and the container may burst.
	Avida Index Primer Pairs 97-192 for ILM	
Hazardous combustion products	: Nuclease-Free Water Library Wash Buffer	No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	Hyb Wash Buffer 1	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	End Prep Enzyme	Decomposition products may include the following materials: carbon dioxide
	Ligation Buffer	carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	Ligation Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Adapter for ILM Hyb Blocker Hyb Buffer	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

SECTION 5: Firefighting measures

5	lung measures	
	Hyb Enhancer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	2X Amplification Mastermix	Decomposition products may include the following materials:
	Library Binding Beads	carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Capture Beads Avida Index Primer Pairs 97-192 for ILM	halogenated compounds metal oxide/oxides No specific data.
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 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 taken involving any personal risk or without suitable training.
	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 taken involving any personal risk or without suitable training.
	Resuspension Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
	End Prep Buffer	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
	End Prep Enzyme	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
	Ligation Buffer	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
	Ligation Enzyme	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.
	Adapter for ILM	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Hyb Blocker	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
	Hyb Buffer	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 Enhancer	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
	2X Amplification Mastermix	taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Library Binding Beads	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SECTION 5: Firefighting measures

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	Capture Beads Avida Index Primer Pairs 97-192 for ILM	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be
		taken involving any personal risk or without suitable training.
Special protective : equipment for fire- fighters	Nuclease-Free Water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
·	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
	Hyb Wash Buffer 2	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Resuspension Buffer	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	End Prep Buffer	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	End Prep Enzyme	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Ligation Buffer	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Ligation Enzyme	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Adapter for ILM	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Hyb Blocker	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Hyb Buffer	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Hyb Enhancer	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	2X Amplification Mastermix	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Library Binding Beads	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Capture Beads	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode
	Avida Index Primer Pairs 97-192 for ILM	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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.
	Library Wash Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Hyb Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Hyb Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Resuspension Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	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 not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Ligation Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Ligation Enzyme	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Adapter for ILM	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Hyb Blocker	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Hyb Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

For emergency responders

 unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put or appropriate personal protective equipment. 2X Amplification No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Put on appropriate personal protective equipment. Library Binding Beads No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Put on appropriate personal protective equipment. Capture Beads No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal protective equipment. Avida Index Primer Pairs No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Put on appropriate personal protective equipment. Nuclease-Free Water If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Hyb Wash Buffer 1 If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Hyb Wash Buffer 2 If specialised clothing is required to deal with the spillage, take note of any	Hyb Enhancer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep
appropriate respirator when ventilation is inadequate. Put or appropriate personal protective equipment. 2X Amplification Mastermix Mastermix Library Binding Beads Library Binding Beads Library Binding Beads Capture Beads Via action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotectide personal protective equipment. Capture Beads Avida Index Primer Pairs Avida Index Primer Pairs No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal propertide personal protective equipment. Avida Index Primer Pairs No action shall be taken involving any personal risk or withou 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. Avida Index Primer Pairs No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Yuese Parcolaised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Library Wash Buffer 1 If specialised clothing is required to deal with the spillage, take note of any information in Section 8		unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing
2X Amplification appropriate personal protective equipment. No action shall be taken involving any personal risk or withous suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Library Binding Beads No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Capture Beads No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Avida Index Primer Pairs No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Avida Index Primer Pairs No action shall be taken involving any personal risk or withou 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. Avida Index Primer Pairs No action shall be taken involving any personal risk or withou suitable material. Stepsilon appropriate personal protected personnel from entering. Do not touch or walk through spilt material.		
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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- emergency personnel".
	Hyb Blocker	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
	Hyb Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
	Hyb Enhancer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	2X Amplification Mastermix	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Library Binding Beads	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Capture Beads	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Avida Index Primer Pairs 97-192 for ILM	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
6.2 Environmental : precautions	Nuclease-Free Water	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Library Wash Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Hyb Wash Buffer 1	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Hyb Wash Buffer 2	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Resuspension Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	End Prep Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large
	End Prep Enzyme	quantities. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	Ligation Buffer	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

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SECTION 6: Accidental release measures

	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 (sewers, waterways, soil or air).
Hyb Buffer	Avoid dispersal of spilt material and runoff and contact with
	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.
	May be harmful to the environment if released in large guantities.
Hyb Enhancer	Avoid dispersal of spilt material and runoff and contact with
	soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
2X Amplification Mastermix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant
Masterinik	authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Library Binding Beads	Avoid dispersal of spilt material and runoff and contact with
	soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Capture Beads	Avoid dispersal of spilt material and runoff and contact with
	soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution
Avide Index Drivery Drive	(sewers, waterways, soil or air).
Avida Index Primer Pairs 97-192 for ILM	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Nuclease-Free Water	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Library Wash Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Hyb Wash Buffer 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Hyb Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

Resuspension Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
End Prep Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose
End Prep Enzyme	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and
Ligation Buffer	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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
Adapter for ILM	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose
Hyb Blocker	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose
Hyb Buffer	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose
Hyb Enhancer	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and
2X Amplification Mastermix	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose
Library Binding Beads	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose
Capture Beads	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose
Avida Index Primer Pairs 97-192 for ILM	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

SECTION 6: Accidental release measures

of via a licensed waste disposal contractor.

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

SECTION 7: Handling and storage

7.1 Precautions for safe h	-	
Protective measures	: Nuclease-Free Water	Put on appropriate personal protective equipment (see Section 8).
	Library Wash Buffer	Put on appropriate personal protective equipment (see Section 8).
	Hyb Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	Hyb Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
	Resuspension Buffer	Put on appropriate personal protective equipment (see Section 8).
	End Prep Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	End Prep Enzyme	Put on appropriate personal protective equipment (see Section 8).
	Ligation Buffer	Put on appropriate personal protective equipment (see Section 8).
	Ligation Enzyme	Put on appropriate personal protective equipment (see Section 8).
	Adapter for ILM	Put on appropriate personal protective equipment (see Section 8).
	Hyb Blocker	Put on appropriate personal protective equipment (see Section 8).
	Hyb Buffer	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do no 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 ir 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 Amplification Mastermix Library Binding Beads	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).

	and otorage	
	Capture Beads	Put on appropriate personal protective equipment (see Section 8).
	Avida Index Primer Pairs 97-192 for ILM	Put on appropriate personal protective equipment (see Section 8).
Advice on general : occupational hygiene	Nuclease-Free Water	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Library Wash Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Hyb Wash Buffer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Hyb Wash Buffer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Resuspension Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	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.
Date of issue/Date of revision	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 for additional information on hygiene measures.

<u> </u>	
Hyb Blocker	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Hyb Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Hyb Enhancer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
2X Amplification Mastermix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Library Binding Beads	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Capture Beads	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Avida Index Primer Pairs 97-192 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 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.
	Library Wash Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

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

Conture Roads	appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Capture Beads	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials
Avida Index Primer Pairs 97-192 for ILM	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

7.3 Specific end use(s)

Recommendations	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs	Industrial applications, Profession Industrial applications, Profession	onal applications. onal applications.
Industrial sector specific solutions	 97-192 for ILM Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM 	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.	
Date of issue/Date of revision	: 11/04/2024 Date of previou	s issue : 23/02/2024	Version : 1.1

Hyb Blocker	Not available.
Hyb Buffer	Not available.
Hyb Enhancer	Not available.
2X Amplification	Not available.
Mastermix	
Library Binding Beads	Not available.
Capture Beads	Not available.
Avida Index Primer Pairs	Not available.
97-192 for ILM	

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/m³ 8 hours. Form: Mist		
Ligation Enzyme			
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 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.		
2X Amplification Mastermix			
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist		

Biological exposure indices

No exposure indices known.

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

DNELs/DMELs

Product/ingredient name	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/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m ³	Workers	Systemic
Hyb Enhancer					
Formamide	DNEL	Long term Dermal	0.952 mg/ kg bw/day	Workers	Systemic
ate of issue/Date of revision : 11/0	4/2024 <mark>Da</mark>	te of previous issue	: 23/02/2024	4 Ver	sion : 1.1 33/5

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SECTION 8: Exposure controls/personal protection

	DNEL	Long term Inhalation	6.6 mg/m ³	Workers	Systemic
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PNECs

No PNECs available

8.2 Exposure controls **Appropriate engineering** : 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 controls airborne contaminants below any recommended or statutory limits. Individual protection measures **Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. : Safety evewear complying with an approved standard should be used when a risk Eye/face protection 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 sideshields. 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. : Personal protective equipment for the body should be selected based on the task being **Body protection** performed and the risks involved and should be approved by a specialist before handling this product. : Appropriate footwear and any additional skin protection measures should be selected Other skin protection 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 ŝ. 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. : Emissions from ventilation or work process equipment should be checked to ensure **Environmental** they comply with the requirements of environmental protection legislation. In some exposure controls 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 Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM	Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid.

SECTION 9: Physical and chemical properties

	and chemical pro	percies
	Hyb Blocker	Liquid.
	Hyb Buffer	Liquid.
	Hyb Enhancer	Liquid.
	2X Amplification	Liquid.
	Mastermix	1 Annold
	Library Binding Beads	Liquid.
	Capture Beads	Liquid.
	Avida Index Primer Pairs 97-192 for ILM	Liquid.
0.1		
Colour :	Nuclease-Free Water	Colourless.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer End Prep Buffer	Not available. Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	2X Amplification	Not available.
	Mastermix	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	97-192 for ILM	
Odour :	Nuclease-Free Water	Odourless.
	Library Wash Buffer	Not available.
	Hyb Ŵash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	2X Amplification Mastermix	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	97-192 for ILM	
Odour threshold :	Nuclease-Free Water	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	2X Amplification	Not available.
	Mastermix	Net evelleble
	Library Binding Beads	Not available.

SECTION 9: Physical and chemical properties

	po:
	Not available. Not available.
 97-192 for ILM Nuclease-Free Water Library Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 	0°C Not available. Not available. 0°C 0°C Not available. Not available. Not available. 0°C 0°C Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
 97-192 for ILM Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM 	100°C Not available. Not available. 100°C 100°C Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	Not applicable. Not applicable.
	Capture Beads Avida Index Primer Pairs 97-192 for ILM : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Buffer End Prep Buffer End Prep Buffer Ligation Enzyme Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM : Nuclease-Free Water Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM : Nuclease-Free Water Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Buffer Hyb Wash Buffer 1 Hyb Bucker 1 Hyb Bucker 1 Hyb Bucker 1 Hyb Bucker 1 Hyb Wash Buffer 1

SECTION 9: Physical and chemical properties

Upper/lower flammability	:	Nuclease-Free Water	Not available.	
or explosive limits		Library Wash Buffer	Not available.	
		Hyb Wash Buffer 1	Not available.	
		Hyb Wash Buffer 2	Not available.	
		Resuspension Buffer	Not available.	
		End Prep Buffer	Not available.	
		End Prep Enzyme	Not available.	
		Ligation Buffer	Not available.	
		Ligation Enzyme	Not available.	
		Adapter for ILM	Not available.	
		Hyb Blocker	Not available.	
		Hyb Buffer	Not available.	
		Hyb Enhancer	Not available.	
		2X Amplification	Not available.	
		Mastermix		
		Library Binding Beads	Not available.	
		Capture Beads	Not available.	
		Avida Index Primer Pairs	Not available.	
		97-192 for ILM		
Flash point	:			Closed ou
				Closed cu

	Clo	osed cup	0	pen cup
Ingredient name	°C	Method	°C	Method
Library Wash Buffer				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
End Prep Enzyme				
glycerol	-	-	177	-
Ligation Buffer				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
Ligation Enzyme				
glycerol	-	-	177	-
Hyb Enhancer				
formamide	150	-	152	DIN EN IS 2592
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
2X Amplification Mastermix				
glycerol	-	-	177	-
Library Binding Beads				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-

Auto-ignition temperature

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SECTION 9: Physical and chemical properties

In our all suct as			Mothod
Ingredient name		°C	Method
Library Wash Buffer			
Poly(oxy-1,2-ethanediyl),α Ethane-1,2-diol, ethoxylate		360	-
End Prep Enzyme			
glycerol		370	-
Ligation Buffer			
Poly(oxy-1,2-ethanediyl),α Ethane-1,2-diol, ethoxylate		360	-
Ligation Enzyme			
glycerol		370	-
Hyb Enhancer			
Poly(oxy-1,2-ethanediyl),α Ethane-1,2-diol, ethoxylate		360	-
formamide		>500	ASTM D 2155-66
2X Amplification Master	mix		
glycerol		370	-
Library Binding Beads			
Poly(oxy-1,2-ethanediyl),α Ethane-1,2-diol, ethoxylate		360	-
Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads	Not available. Not available.		

Decomposition temperature

SECTION 9: Physical and chemical properties

рН	: Nuclease-Free Water Library Wash Buffer	7 Not available.		
	,	7.2 to 7.6		
	Hyb Wash Buffer 1			
	Hyb Wash Buffer 2	7.2 to 7.6 8		
	Resuspension Buffer			
	End Prep Buffer	8 7.5		
	End Prep Enzyme			
	Ligation Buffer	8		
	Ligation Enzyme	7.5		
	Adapter for ILM	8 8		
	Hyb Blocker	o 7.5		
	Hyb Buffer Hyb Enhancer	Not available.		
	2X Amplification	Not available.		
	Mastermix	NUL avallable.		
	Library Binding Beads	8		
	Capture Beads	o Not available.		
	Avida Index Primer Pairs			
	97-192 for ILM	5 0		
		N 1 1 1 1		
liscosity	: Nuclease-Free Water	Not available.		
	Library Wash Buffer	Not available.		
	Hyb Wash Buffer 1	Not available.		
	Hyb Wash Buffer 2	Not available.		
	Resuspension Buffer	Not available.		
	End Prep Buffer End Prep Enzyme	Not available. 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.		
	2X Amplification	Not available.		
	Mastermix	Not available.		
	Library Binding Beads	Not available.		
	Capture Beads	Not available.		
	Avida Index Primer Pairs			
	97-192 for ILM			
Solubility(ies)	: Media		Booult	
Solubility(ics)			Result	
	Nuclease-Free Water			
	water	S	Soluble	
	Library Wash Buffer			
	water	S	Soluble	
	Hyb Wash Buffer 1			
	water	S	Soluble	
	Hyb Wash Buffer 2			
	water	S	Soluble	
	Resuspension Buffer			
	water	S	Soluble	
	End Prep Buffer			
	water	S	Soluble	
	End Prep Enzyme			
	water	S	Soluble	
	Ligation Buffer			
	water	S	Soluble	
	Ligation Enzyme			
	water	S	Soluble	
	Adapter for ILM			
	water	S	Soluble	
	Hyb Blocker			
	water	s	Soluble	
		-		
	Hyb Buffer			

SECTION 9: Physical and chemical properties Soluble water Hyb Enhancer Soluble water Library Binding Beads water Soluble Capture Beads water Soluble Avida Index Primer Pairs 97-192 for ILM water Soluble Partition coefficient: n-: Nuclease-Free Water -1.38 Library Wash Buffer Not applicable. octanol/water Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. **Resuspension Buffer** Not applicable. End Prep Buffer Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. 2X Amplification Not applicable. Mastermix Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs Not applicable. 97-192 for ILM Vapour pressure : Nuclease-Free Water 2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C]

	Vapour	Pressure	e at 20°C	Vap	oour pre	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Library Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.0000004	-	-	-	-
Hyb Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
Resuspension Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Buffer						

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ION 9: Phys	ical and chemical p	-					
	water	17.5	2.3	-	92.258	12.3	-
	End Prep Enzyme						
	water	17.5	2.3	-	92.258	12.3	-
	glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Ligation Buffer						
	water	17.5	2.3	-	92.258	12.3	-
	Ligation Enzyme						
	water	17.5	2.3	-	92.258	12.3	_
	glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Adoptor for II M						
	Adapter for ILM	47.5			00.050	10.0	
	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	0.00000004	-	-	-	-
	2X Amplification Mastermix						
	glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	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	0.00000004	-	-	-	-

SECTION 9: Physic	al and chemical J	oroper	ties				
	Capture Beads						
	water	17.5	2.3	-	92.258	12.3	-
	Avida Index Primer Pairs 97-192 for ILM						
	water	17.5	2.3	-	92.258	12.3	-
Evaporation rate	: Nuclease-Free Wate Library Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Bead Capture Beads Avida Index Primer P 97-192 for ILM	Not Not Not Not Not Not Not Not Not Not	available available available available available available available available available available available available available available available available available				
Relative density	: Nuclease-Free Wate Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Bead Capture Beads	Not Not Not Not Not Not Not Not Not Not	available available available available available available available available available available available available available				
Vapour density	Avida Index Primer P 97-192 for ILM Nuclease-Free Wate Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	r 0.6 Not Not Not Not Not Not Not Not Not Not	2 [Air = 1] available available available available available available available available available available available available available available				
Date of issue/Date of revision	2X Amplification		available	3/02/2024		ersion · 1	1 12/50

Date of issue/Date of revision : 11/04/2024 Date of previous issue

SECTION 9: Physical and chemical properties

-		
	Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	Not available. Not available. Not available.
Explosive properties	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	Not available. Not available.
	2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	Not available. Not available. Not available. Not available.
Oxidising properties	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	Not available. Not available.
_	97-192 IOI ILIVI	
Particle characteristics Median particle size	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	Not applicable. Not applicable.

SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

SECTION 10: Stabi	ility and reactivity	
10.1 Reactivity	: Nuclease-Free Water	No specific test data related to reactivity available for this
	Library Wash Buffer	product or its ingredients. 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
	Hyb Wash Buffer 2	product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
	Resuspension Buffer	No specific test data related to reactivity available for this
	End Prep Buffer	product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
	End Prep Enzyme	No specific test data related to reactivity available for this product or its ingredients.
	Ligation Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Ligation Enzyme	No specific test data related to reactivity available for this product or its ingredients.
	Adapter for ILM	No specific test data related to reactivity available for this product or its ingredients.
	Hyb Blocker	No specific test data related to reactivity available for this product or its ingredients.
	Hyb Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Hyb Enhancer	No specific test data related to reactivity available for this product or its ingredients.
	2X Amplification Mastermix	No specific test data related to reactivity available for this product or its ingredients.
	Library Binding Beads	No specific test data related to reactivity available for this product or its ingredients.
	Capture Beads	No specific test data related to reactivity available for this product or its ingredients.
	Avida Index Primer Pairs 97-192 for ILM	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Nuclease-Free Water Library Wash Buffer	The product is stable. The product is stable.
	Hyb Wash Buffer 1	The product is stable.
	Hyb Wash Buffer 2	The product is stable.
	Resuspension Buffer	The product is stable.
	End Prep Buffer End Prep Enzyme	The product is stable. The product is stable.
	Ligation Buffer	The product is stable.
	Ligation Enzyme	The product is stable.
	Adapter for ILM	The product is stable.
	Hyb Blocker	The product is stable.
	Hyb Buffer Hyb Enhancer	The product is stable. The product is stable.
	2X Amplification	The product is stable.
	Mastermix	
	Library Binding Beads	The product is stable.
	Capture Beads Avida Index Primer Pairs 97-192 for ILM	The product is stable. The product is stable.

SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions		Under normal conditions of storage and use, hazardous reactions will not occur.
nazardous reactions	Library Wash Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	Resuspension Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	End Prep Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	End Prep Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ligation Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ligation Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
	Adapter for ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Blocker	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Enhancer	Under normal conditions of storage and use, hazardous reactions will not occur.
	2X Amplification	Under normal conditions of storage and use, hazardous
	Library Binding Beads	reactions will not occur. Under normal conditions of storage and use, hazardous
	Capture Beads	reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	Avida Index Primer Pairs	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads	No specific data. No specific data.
10.5 Incompatible materials	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
Date of issue/Date of revision	: 11/04/2024 Date of previous	issue : 23/02/2024 Version : 1.1

SECTION 10: Stability and reactivity

	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.
	2X Amplification	May react or be incompatible with oxidising materials.
	Mastermix	
	Library Binding Beads	May react or be incompatible with oxidising materials.
	Capture Beads	May react or be incompatible with oxidising materials.
	Avida Index Primer Pairs	May react or be incompatible with oxidising materials.
		may react of be incompatible with oxidising materials.
	97-192 for ILM	
10.6 Hazardous	: Nuclease-Free Water	Under normal conditions of storage and use, hazardous
decomposition products		decomposition products should not be produced.
	Library Wash Buffer	Under normal conditions of storage and use, hazardous
	,	decomposition products should not be produced.
	Hyb Wash Buffer 1	Under normal conditions of storage and use, hazardous
	,	decomposition products should not be produced.
	Hyb Wash Buffer 2	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	Resuspension Buffer	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	End Prep Buffer	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	End Prep Enzyme	Under normal conditions of storage and use, hazardous
	End hep Enzyme	decomposition products should not be produced.
	Ligation Buffer	Under normal conditions of storage and use, hazardous
	Ligation builer	decomposition products should not be produced.
	Ligation Enzyma	
	Ligation Enzyme	Under normal conditions of storage and use, hazardous
	Adaptor for UN	decomposition products should not be produced.
	Adapter for ILM	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	Hyb Blocker	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	Hyb Buffer	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	Hyb Enhancer	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	2X Amplification	Under normal conditions of storage and use, hazardous
	Mastermix	decomposition products should not be produced.
	Library Binding Beads	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	Capture Beads	Under normal conditions of storage and use, hazardous
		decomposition products should not be produced.
	Avida Index Primer Pairs	Under normal conditions of storage and use, hazardous
	97-192 for ILM	decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute to	אוער	- I T \	
Addie it			L

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	-
e of issue/Date of revision :	11/04/2024 Date of previous issue	: 23/02/2024	Version	1 :1.1 46

SECTION 11: TOXICOL	ogical information			
Hyb Buffer tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	-
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium	LD50 Oral	Rat	20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral	Rat	2800 mg/kg	-
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 - -
2X Amplification Mastermix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
End Prep Buffer					
Magnesium chloride	2800	N/A	N/A	N/A	N/A
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
2X Amplification Mastermix Glycerol	12600	N/A	N/A	N/A	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), .	Eyes - Severe irritant	Rabbit	-	1 %	-
ate of issue/Date of revision	: 11/04/2024 Date of previous is	sue : 23/02/2	024	Version	:1.1 47/5

Avida DNA Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9418B

SECTION 11: Toxicological information

SECTION IT. TOXICOlogical information						
alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-						
2X Amplification Mastermix						
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-	
				mg		
	Skin - Mild irritant	Rabbit	-	24 hours 500	-	
				mg		

<u>Sensitiser</u>	
Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Not available.

Information on likely routes of exposure	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads	Not available. Not available. Not available. Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Not available.
	Avida Index Primer Pairs 97-192 for ILM	

Potential acute health effects

SECTION II.	Toxicological information	
Inhalation	:Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILMNo known significant effects or cri No known significant	tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards.
	inhaled. Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	tical hazards. tical hazards. tical hazards.
Ingestion	 Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Buffer No known significant effects or cri 	tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. mage to organs following a
	2X AmplificationNo known significant effects or cri2X AmplificationNo known significant effects or criMastermixLibrary Binding BeadsNo known significant effects or criCapture BeadsNo known significant effects or criAvida Index Primer PairsNo known significant effects or cri97-192 for ILMNo known significant effects or cri	tical hazards. tical hazards. tical hazards.
Skin contact	 Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer 2 End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Buffer Adapter for ILM Hyb Buffer Hyb Buffer Kapaterian 	tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. tical hazards. ng a single exposure in itation. tical hazards.
	Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	tical hazards.

	oglear mermation	
Eye contact :	Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer End Prep Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxic	ological characteristics
Inhalation :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data. No specific data.
	Ligation Enzyme Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 97-192 for ILM	No specific data.
Ingestion :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer End Prep Buffer	No specific data. 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
	2X Amplification	skeletal malformations
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.

	07 102 for II M	
Skin contact	 97-192 for ILM Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer 	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
	Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation redness
	Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	2X Amplification Mastermix	No specific data.
	Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	No specific data. No specific data. No specific data.
Eye contact	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness
	Hyb Enhancer 2X Amplification Mastermix	No specific data. No specific data.
	Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	No specific data. No specific data. No specific data.
Delayed and immediate effe	<u>ects as well as chronic effe</u>	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 eff	ects	
Conclusion/Summary	: Not available.	

Date of issue/Date of revision : 11/04/2024

General :	Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	May cause damage to organs through prolonged or repeated exposure.
	2X Amplification Mastermix	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.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Carcinogenicity :	Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Ŵash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	Suspected of causing cancer. Risk of cancer depends on
		duration and level of exposure.
	2X Amplification Mastermix	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.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Mutagenicity :	Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Ŵash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification Mastermix	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.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	97-192 for ILM	•

	0	
Reproductive toxicity	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	May damage fertility or the unborn child.
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	97-192 for ILM	
Other information	: End Prep Buffer	Adverse symptoms may include the following: May cause
		skin sensitisation.
	Adapter for ILM	Adverse symptoms may include the following: May cause
		skin sensitisation.
	Hyb Enhancer	Adverse symptoms may include the following: May cause eye irritation. May cause skin irritation.
		, , ,

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
End Prep Buffer			
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180000 μg/l Fresh water	Crustaceans - Calanoid copepod - <i>Eudiaptomus</i> padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lesser Duckweed - <i>Lemna</i> aequinoctialis	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - Water flea - Daphnia hyalina - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Fathead minnow - <i>Pimephales promelas</i>	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - common carp - <i>Cyprinus carpio</i>	35 days
End Prep Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus</i> <i>mykiss</i>	96 hours
Ligation Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus</i> <i>mykiss</i>	96 hours
Hyb Buffer	Asuta LOEO 462 mg/l Eraab water	Fish Fathand minney	96 hours
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Fathead minnow - <i>Pimephales promelas</i>	
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Acute EC50 210 μg/l Fresh water	Algae - Green algae - <i>Selenastrum sp.</i>	96 hours
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SECTION 12: Ecological information

	Acute LC50 10800 µg/l Marine water	Crustaceans - Aesop shrimp - Pandalus montagui - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	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	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
2X Amplification Mastermix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - 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	-	-
2X Amplification Mastermix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

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

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 Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl)	<-1.6 2.7	- 78.67	Low Low
phenyl]omegahydroxy- Hyb Enhancer Formamide	-0.82	-	Low
2X Amplification Mastermix Glycerol	-1.76	-	Low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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 meth	ods
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.

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SECTION 13: Disposal considerations

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

Additional information

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

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

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

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

SECTION 15: Regulatory information

Persistent Organic Pollutants Not listed.

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

Product / Ingredient name		Identifiers		Status	
End Prep Buffer					
End Prep Buffer				3	
Hyb Buffer					
Hyb Buffer Hyb Buffer				3	
Hyb Enhancer					
Hyb Enhancer				3 30	
Formamide				30	
2X Amplification Mastermiz	ĸ				
Nonylphenol, ethoxylated				46a	
Label :	Nuclease-Free		Not applicable		
	Library Wash B		Not applicable		
	Hyb Wash Buff		Not applicable		
	Hyb Wash Buff Resuspension		Not applicable		
	End Prep Buffe		Not applicable. Not applicable.		
	End Prep Enzy		Not applicable		
	Ligation Buffer		Not applicable.		
	Ligation Enzyme Adapter for ILM Hyb Blocker		Not applicable. Not applicable. Not applicable.		
	Hyb Buffer	Hyb Buffer Not applica Hyb Enhancer Restricted t		Not applicable.	
	Hyb Enhancer			o professional users.	
	Library Binding Beads Not Capture Beads Not		Not applicable.		
			Not applicable		
			Not applicable.		
	Avida Index Primer Pairs 97-192 for ILM		Not applicable.		
Seveso Directive	57-152 101 1EW				
his product is not controlled u	inder the Seveso	Directive.			
Danger criteria					
Category					
Hyb Buffer H3					
<u>J regulations</u>	Not listed				
	Not listed				
(integrated pollution					
orevention and control) -					
Air					
	Not listed				
(integrated pollution					
prevention and control) - Nater					
-		ntains substan	ces for which C	hemical Safety Assessments might still be	
sessment	required.				
ernational regulations					
hemical Weapon Convention	on List Schedul	<u>es I, II & III Ch</u>	<u>emicals</u>		
Not listed.					

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SECTION 15: Regulatory information

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States

: Not determined.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

Procedure used to derive the classification

Classification	Justification
End Prep Buffer Aquatic Chronic 3, H412	Calculation method
Hyb Buffer	
Acute Tox. 4, H302	Calculation method
Skin Irrit. 2, H315	Calculation method
STOT SE 1, H370	Calculation method
Aquatic Chronic 3, H412	Calculation method
Hyb Enhancer	
Carc. 2, H351	Calculation method
Repr. 1B, H360	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

End Prep Buffer			
H410	Very toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Hyb Buffer			
H300	Fatal if swallowed.		
H302	Harmful if swallowed.		
H311	Toxic in contact with skin.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H319	Causes serious eve irritation.		
H335	May cause respiratory irritation.		
H370	Causes damage to organs.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		

H411	Toxic to aquatic life with long lasting effects.			
H412	Harmful to aquatic life with long lasting effects.			
Hyb Enhancer				
	Suspected of causing cancer.			
	May damage fertility or the unborn child.			
H373	May cause damage to organs through prolonged or repeated exposure.			
Full text of classi	fications			
End Prep Buffer				
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1			
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3			
Hyb Buffer				
Acute Tox. 2	ACUTE TOXICITY - Category 2			
Acute Tox. 3	ACUTE TOXICITY - Category 3			
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				
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			
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2			
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1			
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3			
Hyb Enhancer				
Carc. 2	CARCINOGENICITY - Category 2			
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B			
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2			
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revision				
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