



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

1.1 Product identifier	
Product name	: Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A
CAS number	: Nuclease-Free Water 7732-18-5 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. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Mastermix Library Binding Beads Not applicable. Avida Index Primer Pairs 1-96 for ILM
Part no. (chemical kit)	: G9418A
Part no.	: Avida DNA and Duo Reagent Box 2, 96 reactions Nuclease-Free Water Library Wash Buffer 1 5271-0134 Library Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer 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 5271-0126 Hyb Buffer 5271-0126 Hyb Buffer 5271-0127 Hyb Enhancer 5271-0128 2X Amplification Mastermix 5271-0128 2X Amplification Mastermix 5271-0128 2X Amplification Mastermix 5271-0138 Capture Beads 5282-0144 Library Binding Beads 5271-0136 Avida Index Primer Pairs 1-96 for ILM 5274-0079
	es of the substance or mixture and uses advised against
Identified uses	: Analytical reagent. For research use only.
	Nuclease-Free Water5.76 ml (96 reactions)Library Wash Buffer2 x 21.12 ml (96 reactions)Hyb Wash Buffer 12 x 31.68 ml (96 reactions)Hyb Wash Buffer 22 x 18.24 ml (96 reactions)Resuspension Buffer2.364 ml (96 reactions)End Prep Buffer0.877 ml (96 reactions)End Prep Enzyme0.351 ml (96 reactions)

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	Ligation Buffer	2.96 ml (96 reactions)
	Ligation Enzyme	0.695 ml (96 reactions)
	Adapter for ILM	0.588 ml (96 reactions)
	Hyb Blocker	0.349 ml (96 reactions)
	Hyb Buffer	5.524 ml (96 reactions)
	Hyb Enhancer	0.988 ml (96 reactions)
	2X Amplification Mastermix	2.94 ml (96 reactions)
	Library Binding Beads	10.083 ml (96 reactions)
	Capture Beads	0.944 ml (96 reactions)
	Avida Index Primer Pairs 1-96 for ILM	96 x 0.005 ml
Uses advised against	: Not for use in diagnostic procedures.	
1.3 Details of the supplier	r of the safety data sheet	
Agilent Technologies Deu	tschland GmbH	
Hewlett-Packard-Str. 8		
76337 Waldbronn		
Germany		
0800 603 1000		
a mail address of nares	n i ndl mada author@agilant.com	

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 th	e substance or mixture		
Product definition	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Mono-constituent substance Mixture	
	ing to Regulation (EC) No. 1272/2	2008 [CLP/GHS]	
End Prep Buffer			
H412	LONG-TERM (CHRONIC) AQU	ATIC HAZARD	Category 3
Hyb Buffer H302 H315 H370 H412	ACUTE TOXICITY (oral) SKIN CORROSION/IRRITATION SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE LONG-TERM (CHRONIC) AQUATIC HAZARD		Category 4 Category 2 Category 1 Category 3

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Hyb Enhancer		
H351	CARCINOGENICITY	Category 2
H360	REPRODUCTIVE TOXICITY	Category 1B
H373	SPECIFIC TARGET ORGAN TO	
	EXPOSURE	
Nuclease-Free Water	The product is not cla 1272/2008 as amend	ed.
Library Wash Buffer		ssified as hazardous according to Regulation (EC)
Hyb Wash Buffer 1		ssified as hazardous according to Regulation (EC)
Hyb Wash Buffer 2		ssified as hazardous according to Regulation (EC)
Resuspension Buffer		ssified as hazardous according to Regulation (EC)
End Prep Buffer		ied as hazardous according to Regulation (EC) 1272/2008 as
End Prep Enzyme		ed.
Ligation Buffer		ssified as hazardous according to Regulation (EC)
Ligation Enzyme		ssified as hazardous according to Regulation (EC)
Adapter for ILM		ssified as hazardous according to Regulation (EC)
Hyb Blocker	The product is not cla 1272/2008 as amend	ed.
Hyb Buffer		ied as hazardous according to Regulation (EC) 1272/2008 as
Hyb Enhancer		ied as hazardous according to Regulation (EC) 1272/2008 as
2X Amplification Mastern		ed.
Library Binding Beads		ssified as hazardous according to Regulation (EC)
Capture Beads		ssified as hazardous according to Regulation (EC)
Avida Index Primer Pairs ILM		ssified as hazardous according to Regulation (EC)
Ingredients of unknowr toxicity		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
,	Hyb Wash Buffer 1	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	End Prep Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	End Prep Enzyme	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Ligation Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Ligation Enzyme	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Hyb Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of 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%

SECTION 2: Hazards identification

Ingredients of unknown : Hyb Buffer ecotoxicity

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



	 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 1-96 for ILM 	No signal word. No signal word. Danger Danger No signal word. No signal word. No signal word.
Hazard statements	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects. No known significant effects or critical hazards. No known significant effects or critical hazards. H302 - Harmful if swallowed. H315 - Causes skin irritation. H370 - Causes damage to organs. H412 - Harmful to aquatic life with long lasting effects. H351 - Suspected of causing cancer.
	2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs	 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.
Provide the second second	1-96 for ILM	The known organization on on on on the mazardo.

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Precautionary statements

SECTION 2: Hazards identification

Prevention	: 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	P273 - Avoid release to the environment.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme Adapter for ILM	Not applicable.
	•	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P280 - Wear protective gloves.
		P273 - Avoid release to the environment.
		P260 - Do not breathe vapour.
	Wyb Enhancer	P270 - Do not eat, drink or smoke when using this product.
	Hyb Enhancer	P201 - Obtain special instructions before use.
		P280 - Wear protective gloves, protective clothing and eye
		or face protection.
	2X Amplification	P260 - Do not breathe vapour.
	2X Amplification	Not applicable.
	Mastermix	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	1-96 for ILM	
Response	: 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	P308 + P311 - IF exposed or concerned: Call a POISON
		CENTER or doctor.
	Hyb Enhancer	P308 + P313 - IF exposed or concerned: Get medical advice
		or attention.
	2X Amplification	Not applicable.
	Mastermix	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	1-96 for ILM	
Storage	: Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Ŵash 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.
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		Avida Index Primer Pairs 1-96 for ILM	Not applicable.
Disposal	:	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance
		Hyb Enhancer	with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		2X Amplification Mastermix	Not applicable.
		Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Not applicable. Not applicable. Not applicable.
Hazardous ingredients	:	Hyb Buffer Hyb Enhancer	tetramethylammonium chloride formamide
Supplemental label elements	:	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 1-96 for ILM	Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Nuclease-Free Water Library Wash 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 applicable. Not applicable.

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	Avida Index Primer Pairs 1-96 for ILM	Not applicable.
Special packaging requirem	<u>ents</u>	
Tactile warning of : danger	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 1-96 for ILM	Not applicable. Not applicable.

2.3 Other hazards

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

PBT P	В	Т	vPvB	vP	vB
Nuclease-					
Free Water					
Not N/A	N/A	N/A	Not	N/A	N/A
applicable			applicable		
(Inorganic)			(Inorganic)		
ibrary Wash Buffer	This mixt	ure does no	ot contain any su	ubstances th	nat are
-			T or a vPvB.		
Hyb Wash Buffer 1	This mixt	ure does no	ot contain any รเ	ubstances th	nat are
			T or a vPvB.		
Hyb Wash Buffer 2	This mixt	ure does no	ot contain any รเ	ubstances th	nat are
-			T or a vPvB.		
Resuspension Buffer			ot contain any รเ	ubstances th	nat are
			T or a vPvB.		
End Prep Buffer	This mixt	ure does no	ot contain any รเ	ubstances th	nat are
	assessed	l to be a PB	T or a vPvB.		
End Prep Enzyme	This mixt	ure does no	ot contain any รเ	ubstances th	nat are
	assessed	l to be a PB	T or a vPvB.		
_igation Buffer	This mixt	ure does no	ot contain any รเ	ubstances th	nat are
-	assessed	l to be a PB	T or a vPvB.		
_igation Enzyme	This mixt	ure does no	ot contain any su	ubstances th	nat are
	assessed	l to be a PB	T or a vPvB.		
Adapter for ILM			ot contain any su	ubstances tl	nat are
	assessed	l to be a PB	T or a vPvB.		
Hyb Blocker	This mixt	ure does no	ot contain any su	ubstances th	nat are
	assessed	l to be a PB	T or a vPvB.		
Hyb Buffer			ot contain any su	ubstances th	nat are
	assessed	l to be a PB	T or a vPvB.		
Hyb Enhancer			ot contain any su	ubstances th	nat are
			T or a vPvB.		
2X Amplification			ot contain any รเ	ubstances th	nat are
<i>A</i> astermix			T or a vPvB.		
_ibrary Binding Beads			ot contain any รเ	ubstances th	nat are
			T or a vPvB.		
Capture Beads			ot contain any รเ	ubstances th	nat are
			T or a vPvB.		
vida Index Primer Pairs	This mixt	ure does no	ot contain any รเ	ubstances th	nat are

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	1-96 for ILM	assessed to be a PBT or a vPvB.
Other hazards which do	: Nuclease-Free Water	None known.
not result in	Library Wash Buffer	None known.
classification	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2	None known.
	Resuspension Buffer	None known.
	End Prep Buffer	None known.
	End Prep Enzyme	None known.
	Ligation Buffer	None known.
	Ligation Enzyme	None known.
	Adapter for ILM	None known.
	Hyb Blocker	None known.
	Hyb Buffer	None known.
	Hyb Enhancer	None known.
	2X Amplification	None known.
	Mastermix	
	Library Binding Beads	None known.
	Capture Beads	None known.
	Avida Index Primer Pairs 1-96 for ILM	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: 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 1-96 for	Mono-constituent substance Mixture
	ILM	

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Nuclease-Free Water					
water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	-	[1]
End Prep Buffer					
magnesium chloride	EC: 232-094-6 CAS: 7786-30-3	<2.5	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
End Prep Enzyme					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
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Ligation Enzyme			-		
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
Hyb Buffer					
tetramethylammonium chloride	EC: 200-880-8 CAS: 75-57-0	≥10 - <15	Acute Tox. 2, H300 Acute Tox. 3, H311 Skin Irrit. 2, H315 STOT SE 1, H370 (central nervous system (CNS)) (oral) Aquatic Chronic 2, H411	ATE [Oral] = 50 mg/ kg ATE [Dermal] = 300 mg/kg	[1]
Dextran sulfate sodium	CAS: 9011-18-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	CAS: 9036-19-5	<0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 10 M [Chronic] = 1	[1] [2]
Hyb Enhancer					
formamide	EC: 200-842-0 CAS: 75-12-7	≥90	Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 (blood) (oral)	-	[1] [2]
2X Amplification Mastermix					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified. See Section 16 for the full text of the H statements declared above.	-	[1]

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 liste	ed in Section 8.

4.1 Description of first aid m	easures	
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 any contact lenses. Get medical attention if irritation occurs.
	Resuspension Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	End Prep Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	End Prep Enzyme	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Ligation Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Ligation Enzyme	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Adapter for ILM	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Hyb Blocker	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Hyb Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes
	Hyb Enhancer	Get medical attention. If necessary, call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove
		any contact lenses. Continue to rinse for at least 10 minutes Get medical attention.
	2X Amplification Mastermix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Library Binding Beads	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Capture Beads	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Avida Index Primer Pairs 1-96 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 occur.
	Library Wash Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hyb Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

Hyb Wash Buffer 2	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
Resuspension Buffer	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
End Prep Buffer	symptoms occur. 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
End Prep Enzyme	surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
Ligation Buffer	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for
Ligation Enzyme	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 dangerous to the person providing aid to give mouth-to- mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Hyb Enhancer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to- mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
2X Amplification Mastermix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
Library Binding Beads	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if
Capture Beads	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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	Avida Index Primer Pairs 1-96 for ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Nuclease-Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	Library Wash Buffer	symptoms occur. 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 symptoms occur.
	Ligation Enzyme	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Adapter for ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hyb Blocker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hyb Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Hyb Enhancer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	2X Amplification Mastermix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Library Binding Beads	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Capture Beads	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Avida Index Primer Pairs 1-96 for ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion	: Nuclease-Free Water	Wash out mouth with water. If material has been swallowed
ingestion	. Nuclease-i i ce walei	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
	Library Wash Buffer	symptoms occur. Wash out mouth with water. If material has been swallowed
		and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to
		do so by medical personnel. Get medical attention if 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 so by medical personnel.
	End Prep Enzyme	Wash out mouth with water. If material has been swallowe
		and the exposed person is conscious, give small quantities
		of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ligation Buffer	Wash out mouth with water. If material has been swallowed
		and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to
		do so by medical personnel. Get medical attention if symptoms occur.
	Ligation Enzyme	Wash out mouth with water. If material has been swallowe and the exposed person is conscious, give small quantities
		of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if
	Adapter for UNA	symptoms occur.
	Adapter for ILM	Wash out mouth with water. If material has been swallowe and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to
		do so by medical personnel. Get medical attention if
	Hyb Blocker	symptoms occur. Wash out mouth with water. If material has been swallowe
	Hyb Blockel	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. I unconscious, place in recovery position and get medical

		attention immediately. Maintain an open airway. Loosen
	Hyb Enhancer	tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. If
		material has been swallowed and the exposed person is
		conscious, give small quantities of water to drink. Stop if the
		exposed person feels sick as vomiting may be dangerous.
		Do not induce vomiting unless directed to do so by medical
		personnel. If vomiting occurs, the head should be kept low
		so that vomit does not enter the lungs. Get medical
		attention. Never give anything by mouth to an unconscious
		person. If unconscious, place in recovery position and get
		medical attention immediately. Maintain an open airway.
	OV Ameriliantian	Loosen tight clothing such as a collar, tie, belt or waistband.
	2X Amplification Mastermix	Wash out mouth with water. If material has been swallowed
	Masternix	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
	, 3	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	Wash out mouth with water. If material has been swallowed
	1-96 for ILM	and the exposed person is conscious, give small quantities
		of water to drink. Do not induce vomiting unless directed to
		do so by medical personnel. Get medical attention if
		symptoms occur.
Protection of first-aiders	: Nuclease-Free Water	No action shall be taken involving any personal risk or
		without suitable training.
	Library Wash Buffer	No action shall be taken involving any personal risk or
	Line March Duffer 4	without suitable training.
	Hyb Wash Buffer 1	No action shall be taken involving any personal risk or without auitable training
	Hyb Wash Buffer 2	without suitable training. 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 auitable training
	Ligation Enzyme	without suitable training. No action shall be taken involving any personal risk or
	Eigation Enzyme	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
		te and percent promaing and to give moduli to moduli

SECTION 4: First aid measures

	resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
2X Amplification	No action shall be taken involving any personal risk or
Mastermix	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 1-96 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 Potential acute health effects

Potential acute fieattine	<u>6116613</u>	
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 Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	 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 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	 1-96 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 	No known significant effects or critical hazards. No known significant effects or critical hazards.

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	Hyb Buffer	Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification 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 1-96 for ILM	No known significant effects or critical hazards.
Ingestion	: Nuclease-Free Water	No known significant effects or critical hazards.
3	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	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
	Hyb Enhancer 2X Amplification	No known significant effects or critical hazards. 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 1-96 for ILM	No known significant effects or critical hazards.
Over-exposure signs/symp		
Eye contact	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer 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	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 1-96 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 Resuspension Buffer	No specific data. 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 Hyb Buffer Hyb Enhancer	No specific data. No specific data. Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths
	2X Amplification Mastermix	skeletal malformations No specific data.
	Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	No specific data. No specific data. No specific data.
Skin 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: irritation redness
	Hyb Enhancer 2X Amplification Mastermix Library Binding Beads	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations No specific data.
	Capture Beads Avida Index Primer Pairs 1-96 for ILM	No specific data. No specific data.
Ingestion	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	No specific data. No specific data. Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations No specific data.
	Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	No specific data. No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Nuclease-Free Water	Treat symptomatically. Contact poison treatment specialist
	Library Wash 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
	Hyb Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
	Hyb Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
	Resuspension Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
	End Prep Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	End Prep Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
	Ligation Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Ligation Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
	Adapter for ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
	Hyb Blocker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
	Hyb Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Hyb Enhancer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need
	2X Amplification	to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist
	Mastermix Library Binding Beads	immediately if large quantities have been ingested or inhaled 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 1-96 for ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
Specific treatments	: Nuclease-Free Water Library Wash Buffer	No specific treatment. No specific treatment.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2	No specific treatment. No specific treatment.
	Resuspension Buffer	No specific treatment.
	End Prep Buffer	No specific treatment.
	End Prep Enzyme	No specific treatment.
	Ligation Buffer	No specific treatment.
	Ligation Enzyme	No specific treatment. No specific treatment.
	Adapter for ILM Hyb Blocker	No specific treatment.
	Hyb Buffer	No specific treatment.
	Hyb Enhancer	No specific treatment.
	2X Amplification Mastermix	No specific treatment.
	Library Binding Beads	No specific treatment.
	Capture Beads	No specific treatment.
	Avida Index Primer Pairs	No specific treatment.
	1-96 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	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
	Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Use an extinguishing agent suitable for the surrounding fire. 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 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 Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	None known. None known.
5.2 Special hazards arising	from the substance or mixt	ure
Hazards from the substance or mixture	: Nuclease-Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	Library Wash Buffer Hyb Wash Buffer 1	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
	Hyb Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the In a fire or if heated, a pressure increase will occur and the
	Resuspension Buffer	container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
	End Drop Puffor	In a fire or if boated, a pressure increase will essure and the

End Prep Buffer

Ligation Enzyme

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End Prep Enzyme Ligation Buffer

container may burst.
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container may burst.

container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

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

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

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

discharged to any waterway, sewer or drain.

SECTION 5: Firefighting measures

	Adapter for ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Blocker	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hyb Enhancer	In a fire or if heated, a pressure increase will occur and the container may burst.
	2X Amplification Mastermix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Library Binding Beads	In a fire or if heated, a pressure increase will occur and the container may burst.
	Capture Beads	In a fire or if heated, a pressure increase will occur and the container may burst.
	Avida Index Primer Pairs 1-96 for ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
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	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
		metal oxide/oxides
	End Prep Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ligation Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	Ligation Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
		sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
	Hyb Enhancer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	2X Amplification Mastermix	nitrogen oxides Decomposition products may include the following materials:
	INIdSIGITIA	

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	Library Binding Beads	carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds
	Capture Beads Avida Index Primer Pairs 1-96 for ILM	metal oxide/oxides No specific data. No specific data.
5.3 Advice for firefighters		
Special precautions for fire-fighters	: Nuclease-Free Water	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Library Wash Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Hyb Wash Buffer 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Hyb Wash Buffer 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Resuspension Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	End Prep Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	End Prep Enzyme	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Ligation Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Ligation Enzyme	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Adapter for ILM	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Hyb Blocker	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Hyb Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Hyb Enhancer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	2X Amplification Mastermix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Library Binding Beads	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Capture Beads	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Avida Index Primer Pairs 1-96 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.
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SECTION 5: Firefighting measures **Special protective** : Nuclease-Free Water Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full equipment for fireface-piece operated in positive pressure mode. Clothing for fighters fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment Library Wash Buffer and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Hyb Wash Buffer 1 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Resuspension Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. End Prep Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. End Prep Enzyme Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Ligation Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment Ligation Enzyme and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Adapter for ILM Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Hyb Blocker Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)

SECTION 5: Firefighting measures

Hyb Buffer	conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for
Hyb Enhancer	fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
2X Amplification Mastermix	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a
Library Binding Beads	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Capture Beads	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Avida Index Primer Pairs 1-96 for ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures : Nuclease-Free Water No action shall be taken involving any personal risk or For non-emergency without suitable training. Evacuate surrounding areas. personnel 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. No action shall be taken involving any personal risk or **Resuspension Buffer** without suitable training. Evacuate surrounding areas.

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End Prep Buffer	Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
End Prep Enzyme	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
Ligation Buffer	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
Ligation Enzyme	Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
Adapter for ILM	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
Hyb Blocker	Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
Hyb Buffer	Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
Hyb Enhancer	Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear
2X Amplification Mastermix	appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on
Library Binding Beads	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
Capture Beads	Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
Avida Index Primer Pairs 1-96 for ILM	Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

SECTION 6: Accidental release measures

		Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: Nuclease-Free Water	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Library Wash Buffer	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Hyb Wash Buffer 1	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Hyb Wash Buffer 2	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Resuspension Buffer	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	End Prep Buffer	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	End Prep Enzyme	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-
	Ligation Buffer	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Ligation Enzyme	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-
	Adapter for ILM	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Hyb Blocker	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Hyb Buffer	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	Hyb Enhancer	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	2X Amplification Mastermix	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	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,
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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 nonemergency personnel". Avida Index Primer Pairs If specialised clothing is required to deal with the spillage, 1-96 for ILM take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". 6.2 Environmental : Nuclease-Free Water Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant precautions authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with Library Wash Buffer soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Hyb Wash Buffer 1 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Hyb Wash Buffer 2 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with **Resuspension Buffer** soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). End Prep Buffer Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. End Prep Enzyme Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with Ligation Buffer soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with Ligation Enzyme soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Adapter for ILM Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Hyb Blocker Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with Hyb Buffer soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Hyb Enhancer Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SECTION 6: Accidental release measures

2X Amplification	Avoid dispersal of spilt material and runoff and contact with
Mastermix	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Library Binding Beads	Avoid dispersal of spilt material and runoff and contact with
	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Capture Beads	Avoid dispersal of spilt material and runoff and contact with
	soil, waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(sewers, waterways, soil or air).
Avida Index Primer Pairs	Avoid dispersal of spilt material and runoff and contact with
1-96 for ILM	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

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

Adapter for ILM Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Hyb Blocker Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Hyb Buffer Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Hyb Enhancer 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. Stop leak if without risk. Move containers from spill area. 2X Amplification Mastermix Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Library Binding Beads Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Capture Beads 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. Avida Index Primer Pairs Stop leak if without risk. Move containers from spill area. 1-96 for ILM 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

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	nandling	
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
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SECTION 7: Handling and storage

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		product residue and can be hazardous. Do not reuse container.
	End Prep Enzyme	Put on appropriate personal protective equipment (see
	Ligation Buffer	Section 8). Put on appropriate personal protective equipment (see Section 8).
	Ligation Enzyme	Put on appropriate personal protective equipment (see Section 8).
	Adapter for ILM	Put on appropriate personal protective equipment (see Section 8).
	Hyb Blocker	Put on appropriate personal protective equipment (see Section 8).
	Hyb Buffer	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material,
	Hyb Enhancer	kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be
	2X Amplification Mastermix Library Binding Beads	hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see
	Capture Beads	Section 8). Put on appropriate personal protective equipment (see Section 8).
	Avida Index Primer Pairs 1-96 for ILM	Put on appropriate personal protective equipment (see Section 8).
l ene	: 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

Advice on general occupational hygiene

SECTION 7: Handling and storage

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Resuspension Buffer	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also
End Prep Buffer	Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and
End Prep Enzyme	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and
Ligation Buffer	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and
Ligation Enzyme	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and
Adapter for ILM	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating,
Hyb Blocker	drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating,
Hyb Buffer	drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and
Hyb Enhancer	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and
2X Amplification Mastermix	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and
Library Binding Beads	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Avida DNA Reagent Rit with 1-50 maex 1 miler 1 ans 10				
SECTION 7: Handling and storage				
Capture Beads	Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, 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 1-96 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.
	Hyb Wash Buffer 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Hyb Wash Buffer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Resuspension Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have

SECTION 7: Handling and storage

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

SECTION 7: Handling and storage

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Hyb Buffer	before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
Hyb Enhancer	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
2X Amplification Mastermix	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.
Library Binding Beads	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Capture Beads	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Avida Index Primer Pairs 1-96 for ILM	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

SECTION 7: Handling and storage

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 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 1-96 for ILM	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: 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 1-96 for ILM	Not available. Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values		
End Prep Enzyme			
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist		
Ligation Enzyme Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: mist		
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SECTION 8: Exposure controls/personal protection

Hyb Enhancer Formamide	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 ppm 8 hours. OELV: 18 mg/m ³ 8 hours.
2X Amplification Mastermix Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: mist

Biological exposure indices

No exposure indices known.

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

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
End Prep Buffer					
Magnesium chloride	DNEL	Long term Oral	7 mg/kg 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
	DNEL	Long term Inhalation	6.6 mg/m ³	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls Appropriate engineering controls If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Individual protection measures Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Date of issue/Date of revision	: 11/04/2024	Date of previous issue	: 23/02/2024	Version : 1.1	35/60	
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SECTION 8: Exposure controls/personal protection

Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance		
Physical state	Nuclease-Free WaterLiquid.Library Wash BufferLiquid.Hyb Wash Buffer 1Liquid.Hyb Wash Buffer 2Liquid.Hyb Wash Buffer 2Liquid.Resuspension BufferLiquid.End Prep BufferLiquid.Ligation BufferLiquid.Ligation EnzymeLiquid.Hyb BlockerLiquid.Hyb BufferLiquid.Hyb BufferLiquid.Hyb BufferLiquid.Hyb BufferLiquid.Hyb EnhancerLiquid.ZX AmplificationLiquid.MastermixLibrary Binding BeadsLiquid.Avida Index Primer PairsLiquid.1-96 for ILMLiquid.	
Colour	Nuclease-Free Water Library Wash BufferColourless.Hyb Wash Buffer 1 Hyb Wash Buffer 2Not available Not available Resuspension BufferNot available Not available End Prep BufferEnd Prep Buffer Ligation BufferNot available Not available Not available Not available	e. e. e. e. e.
Dete of issue (Dete of models)		00/00/0

	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.
	1-96 for ILM	
Odour :	Nuclease-Free Water	Odourless.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Not available.
	-	
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	2X Amplification	Not available.
	Mastermix	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	1-96 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	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	1-96 for ILM	
Melting point/freezing :	Nuclease-Free Water	0°C
		Not available.
point	Library Wash Buffer	
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	0°C
	Resuspension Buffer	0°C
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Eigenon Dunoi	Not available.
	Ligation Enzyme	
	Ligation Enzyme	
	Adapter for ILM	0°C
	Adapter for ILM Hyb Blocker	O°C O°C
	Adapter for ILM	0°C
	Adapter for ILM Hyb Blocker	O°C O°C
	Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	0°C 0°C Not available. Not available.
	Adapter for ILM Hyb Blocker Hyb Buffer	0°C 0°C Not available.

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<u> </u>		
	Library Binding Beads Capture Beads Avida Index Primer Pairs	Not available. Not available. 0°C
	1-96 for ILM	
Initial boiling point and :	Nuclease-Free Water	100°C
boiling range	Library Wash Buffer	Not available.
boiling range	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	100°C
	Resuspension Buffer	100°C
	•	
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	100°C
	Hyb Blocker	100°C
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	2X Amplification	Not available.
	Mastermix	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	100°C
	1-96 for ILM	
Flammability :	Nuclease-Free Water	Not applicable.
· · · · · · · · · · · · · · · · · · ·	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	2X Amplification	Not applicable.
	Mastermix	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	1-96 for ILM	
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.
	1-96 for ILM	
Flash point :		

SECTION 9: Physical and chemical properties

		Clos	ed cup		0	pen cup
Ingredient name	°C	I	Method	°C	;	Method
Library Wash Buffer						
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	- c		19 23	9 to 8	-
End Prep Enzyme						
glycerol	-	-		17	7	-
Ligation Buffer						
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	- c		19 23	9 to 8	-
Ligation Enzyme						
glycerol	-	-		17	7	-
Hyb Enhancer						
formamide	150	-		15	2	DIN EN 1 2592
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	- c		19 23	9 to 8	-
2X Amplification Mastermix						
glycerol	-	-		17	7	-
Library Binding Beads						
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	- c		19 23	9 to 8	-
Ingredient name		°C		Me	thod	
Library Wash Buffer						
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hyd Ethane-1,2-diol, ethoxylated	roxy-	360	-			
End Prep Enzyme						
glycerol			-			
Ligation Buffer						
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated			-			
Ligation Enzyme						
glycerol		370	-			

Auto-ignition temperature

Date of issue/Date of revision

Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A SECTION 9: Physical and chemical properties **Hyb Enhancer** 360 Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated >500 ASTM D 2155-66 formamide 2X Amplification Mastermix glycerol 370 Library Binding Beads 360 Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated : Nuclease-Free Water **Decomposition** Not available. Library Wash Buffer temperature Not available. Not available. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not available. **Resuspension Buffer** Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Not available. Ligation Enzyme 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. 1-96 for ILM рΗ : Nuclease-Free Water 7 Library Wash Buffer Not available. Hyb Wash Buffer 1 7.2 to 7.6 Hyb Wash Buffer 2 7.2 to 7.6 **Resuspension Buffer** 8 End Prep Buffer 8 End Prep Enzyme 7.5 Ligation Buffer 8 7.5 Ligation Enzyme Adapter for ILM 8 Hyb Blocker 8 Hyb Buffer 7.5 Hyb Enhancer Not available. 2X Amplification Not available. Mastermix Library Binding Beads 8 Capture Beads Not available. Avida Index Primer Pairs 8 1-96 for ILM Viscosity : Nuclease-Free Water Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. **Resuspension Buffer** Not available. End Prep Buffer Not available.

End Prep Enzyme

Ligation Buffer

Not available.

Not available.

, , , , , , , , , , , , , , , , , , ,			
	Ligation Enzyme	Not available.	
	Adapter for ILM	Not available.	
	Hyb 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		
	1-96 for ILM	NOL AVAIIADIE.	
Solubility(ies)	: Media		Result
	Nuclease-Free Water		
			0.1.1.1
	water		Soluble
	Library Wash Buffer		
	water		Soluble
	Hyb Wash Buffer 1		
	water		Soluble
	Hyb Wash Buffer 2		Soluble
	-		
	water		Soluble
	Resuspension Buffer		
	water		Soluble
	End Prep Buffer		
	water		Soluble
			Soluble
	End Prep Enzyme		
	water		Soluble
	Ligation Buffer		
	water		Soluble
	Ligation Enzyme		
	water		Soluble
	Adapter for ILM		Solubic
	-		
	water		Soluble
	Hyb Blocker		
	water		Soluble
	Hyb Buffer		
	water		Soluble
	Hyb Enhancer		Soluble
	-		0.1.1.1
	water		Soluble
	Library Binding Beads		
	water		Soluble
	Capture Beads		
	water		Soluble
	Avida Index Primer Pair	s 1-96 for II M	
	water		Soluble
	water		Soluple
Partition coefficient: n-	: Nuclease-Free Water	-1.38	
octanol/water	Library Wash Buffer	Not applicable.	
	Hyb Wash Buffer 1	Not applicable.	
	Hyb Wash Buffer 2	Not applicable.	
	Resuspension Buffer	Not applicable.	
	End Prep Buffer	Not applicable.	
	End Prep Enzyme	Not applicable.	
	Ligation Buffer	Not applicable.	
	Ligation Enzyme	Not applicable.	
	Adapter for ILM	Not applicable.	
	Hyb Blocker	Not applicable.	
	Hyb Buffer		
		Not applicable.	
	Hyb Enhancer	Not applicable.	
	2X Amplification	Not applicable.	
	Mastermix		
	Library Binding Beads	Not applicable.	
	Capture Beads	Not applicable.	
	Avida Index Primer Pairs	Not applicable.	
		. tot applicable.	

SECTION 9: Physical and chemical properties

Vapour pressure

Date of issue/Date of revision

1-96 for ILM : 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	our press	sure 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						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer						
water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Adapter for ILM						
water	17.5	2.3	-	92.258	12.3	-
Hyb Blocker						

SECTION 9: Physic

water	17.5	2.3	-	92.258	12.3	_
walti	C. 1 I	2.3	-	92.200	12.3	-
Hyb Buffer						
water	17.5	2.3	-	92.258	12.3	-
Cuancuryiannionian	0.00000001	0.0000000013	EU A.4	-	-	-
chloride						
Hyb Enhancer						
formamide	0.045	0.006	-	-	-	-
2X Amplification						
Mastermix						
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Library Binding Beads						
water	17.5	2.3	-	92.258	12.3	-
	0.0000003	0.00000004	-	-	-	-
1,2-ethanediyl),α- hydro-ω-hydroxy-						
Ethane-1,2-diol,						
ethoxylated						
Capture Beads						
water	17.5	2.3	-	92.258	12.3	-
Avida Index						
Primer Pairs 1-96 for ILM						
	17.5	2.3	-	92.258	12.3	-
Nuclease-Free Water		available.				
₋ibrary Wash Buffer Hyb Wash Buffer 1		available. available.				
Hyb Wash Buffer 2		available.				
Resuspension Buffer End Prep Buffer		available. available.				
End Prep Enzyme		available.				
igation Buffer	Not	available.				
_igation Enzyme		available.				
Adapter for ILM Hyb Blocker		available. available.				
Hyb Buffer		available.				
Hyb Enhancer		available.				
2X Amplification	Not	available.				
Vastermix	Not	available.				
	Not	available. available. available.				

Evaporation rate

<u> </u>		
Relative density	Nuclease-Free Water	1
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme Adapter for ILM	Not available.
	Hyb Blocker	Not available. 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.
	1-96 for ILM	
Vapour density	Nuclease-Free Water	0.62 [Air = 1]
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM Hyb Blocker	Not available. 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.
	1-96 for ILM	
Explosive properties	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 Adapter for ILM	Not available. 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.
	1-96 for ILM	

Oxidising properties	: 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 Mastermix	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs 1-96 for ILM	Not available.
article characteristics		
Median particle size	: 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 Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs 1-96 for ILM	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stab		
10.1 Reactivity	: Nuclease-Free Water	No specific test data related to reactivity available for this product or its ingredients.
	Library Wash Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Hyb Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
	Hyb Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
	Resuspension Buffer	No specific test data related to reactivity available for this product or its ingredients.
	End Prep Buffer	No specific test data related to reactivity available for this product or its ingredients.
	End Prep Enzyme	No specific test data related to reactivity available for this product or its ingredients.
	Ligation Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Ligation Enzyme	No specific test data related to reactivity available for this product or its ingredients.
Date of issue/Date of revision	: 11/04/2024 Date of previo	ous issue : 23/02/2024 Version : 1.1 4

SECTION 10: Stability and reactivity

Adapter for ILM No specific test data related to reactivity available for this product or its ingredients. Hyb Biocker 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 Enfer No specific test data related to reactivity available for this product or its ingredients. 2X Amplification 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. Avda Index Primer Pairs No specific test data related to reactivity available for this product or its ingredients. 10.2 Chemical stability : Nuclease-Free Water Library Wash Buffer 1 The product is stable. Hyb Wash Buffer 1 The product is stable. The product is stable. Hyb Bucker The product is stable. The product is stable. Hyb Buffer 2 The product is stable. The product is stable. Hyb Buffer 1 The product is stable. The product is stable. Hyb Wash Buffer 1 The product is stable. The product is stable. Hyb Buffer 2 The product is stable. The product is stable. Hyb Buffer 1 Th		ly and reactivity	
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. 2X Amplification No specific test data related to reactivity available for this product or its ingredients. 2X Amplification 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 No specific test data related to reactivity available for this product is stable. 19.2 Chemical stability : Nuclease-Free Water The product is stable. Library Wash Buffer The product is stable. Hyb Wash Buffer The product is stable. End Prep Drugme The product is stable. Ligation Buffer The product is stable. Hyb Buffer		Adapter for ILM	
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. ZX Amplification 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. Avids Index Primer Pairs No specific test data related to reactivity available for this product or its ingredients. 10.2 Chemical stability I Nuclease-Free Water The product is stable. Library Wash Buffer The product is stable. Hyb Bioker The product is stable. End Prep Enzyme The product is stable. Ligation Enzyme The product is stable. Adapter for ILM The product is stable. Hyb Bioker The product is stable. Library Wash Buffer The product is stable. Lipation Enzyme The product is stable. Adapter for ILM The product is stable. Lipation Enzyme The product is stable. Adapter for ILM The product is stable. Hyb Bioffer The product is stable. Hyb Binffer The product is stable. <td></td> <td>Hyb Blocker</td> <td>No specific test data related to reactivity available for this</td>		Hyb Blocker	No specific test data related to reactivity available for this
Hyb Enhancer No specific test data related to reactivity available for this product or its ingredients. 2X Amplification 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. 10.2 Chemical stability I Nuclease-Free Water The product is stable. Library Wash Buffer The product is stable. Hyb Wash Buffer 1 The product is stable. End Prep Buffer The product is stable. End Prep Buffer The product is stable. Ligation Buffer The product is stable. Hyb Blocker The product is stable. Hyb Buffer The product is stable. Hyb Buffer The product is stable. Hyb Buffer The product is stable. Hyb Wash Buffer 1 Under normal conditions		Hyb Buffer	No specific test data related to reactivity available for this
2X Amplification 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. Avida Index Primer Paris No specific test data related to reactivity available for this product or its ingredients. Avida Index Primer Paris No specific test data related to reactivity available for this product or its ingredients. 10.2 Chemical stability : Nuclease-Free Water The product is stable. Hyb Wash Buffer 1 The product is stable. Hyb Wash Buffer 2 The product is stable. End Prep Enzyme The product is stable. Ligation Enzyme The product is stable. Ligation Enzyme The product is stable. Hyb Buffer 1 The product is stable. Ligation Enzyme The product is stable. Ligation Enzyme The product is stable. Hyb Buffer 1 The product is stable. Hyb Buffer 1 The product is stable. Hyb Buffer 1 The product is stable. Ligation Enzyme The product is stable. Hyb Buffer 1 The product is stable. Hyb Buffer 1 Under normal conditions of storage and use, hazardous reactions will not		Hyb Enhancer	No specific test data related to reactivity available for this
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 No specific test data related to reactivity available for this product or its ingredients. 10.2 Chemical stability I Nuclease-Free Water The product is stable. Library Wash Buffer 1 The product is stable. The product is stable. Hyb Wash Buffer 1 The product is stable. The product is stable. End Prep Buffer The product is stable. The product is stable. Ligation Enzyme The product is stable. Hyb Buffer 3 Hyb Buffer 1 The product is stable. Hyb Buffer 3 Hyb Buffer 1 The product is stable. Hyb Buffer 3 Hyb Buffer 1 The product is stable. Hyb Buffer 3 Hyb Buffer 1 The product is stable. Hyb Buffer 3 Hyb Buffer 1 The product is stable. Hyb Buffer 3 Hyb Buffer 2 The product is stable. Hyb Buffer 3 Hyb Buffer 1 The product is stable. Hyb Buffer 3 Hyb Buffer 1 The product is stable. Hyb Buffer 3			No specific test data related to reactivity available for this
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SECTION 10: Stability and reactivity

2X Amplification	reactions will not occur. Under normal conditions of storage and use, hazardous
Mastermix 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
Capture Deads	reactions will not occur.
Avida Index Primer Pairs 1-96 for ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
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Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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SECTION 10: Stability and reactivity

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End Prep Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Ligation Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Ligation Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Adapter for ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Blocker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hyb Enhancer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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
1-96 for ILM	decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
End Prep Buffer				
Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
Hyb Buffer				
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg] -
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium	LD50 Oral	Rat	20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), . alpha[LD50 Oral	Rat	2800 mg/kg	-
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-				
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists	Rat - Male	>21 mg/l	4 hours
	LD50 Dermal	Rabbit	17 g/kg	-
	LD50 Oral	Rat	5570 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists (mg/l)
End Prep Buffer					
Magnesium chloride	2800	N/A	N/A	N/A	N/A
Hyb Buffer					
Hyb Buffer	456.2	2737.2	N/A	N/A	N/A
tetramethylammonium chloride	50	300	N/A	N/A	N/A
Dextran sulfate sodium	20600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha[500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					
e of issue/Date of revision : 11/04/2024 Date of prev	ious issue	: 23/02/2024	•	Version :1.1	48/6

SECTION 11: Toxicological information

-	<u> </u>					
Hyb Enhancer Formamide		5570	17000	N/A	N/A	N/A
Irritation/Corrosion						
Product/ingredient name	Result	;	Species	Score	Exposure	Observation
Hyb Buffer Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	R	abbit	-	1 %	-
<u>Sensitiser</u>				·	·	
Conclusion/Summary	: Not available.					
Mutagenicity						
Conclusion/Summary	: Not available.					
Carcinogenicity						
Conclusion/Summary	: Not available.					
Reproductive toxicity						
Conclusion/Summary	: Not available.					
Teratogenicity						
Conclusion/Summary	: Not available.					
Specific target organ toxic	<u>ty (single exposure)</u>					

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Not available.

Information on likely	: Nuclease-Free Water	Not available.
routes of exposure	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	End Prep Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Ligation Buffer	Not available.
	Ligation Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Adapter for ILM	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Hyb Blocker	Not available.
	Hyb Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Hyb Enhancer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	2X Amplification	Not available.
	Mastermix	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	1-96 for ILM	

Potential acute health effect	: <u>ts</u>	
Potential acute health effect Inhalation	 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 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	Avida Index Primer Pairs 1-96 for ILM : Nuclease-Free Water	No known significant effects or critical hazards. No known significant effects or critical hazards.
	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 Bolocker Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards. No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	 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 Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM 	No known significant effects or critical hazards. No known significant effects or critical hazards.

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 End Prep Buffer	No known significant effects or critical hazards. 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 1-96 for ILM	No known significant effects or critical hazards.
Symptoms related to the pl	nysical, 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 Ligation Enzyme	No specific data. 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 Avida Index Primer Pairs	No specific data. No specific data.
	1-96 for ILM	
Ingestion	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2 Resuspension Buffer	No specific data. 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
	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.

	- 9	
	1-96 for ILM	
Skin contact :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	
		No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		irritation
		redness
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	
Eye contact :	Nuclease-Free Water	No specific data.
Lyc contact	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
		No specific data.
	Resuspension Buffer	•
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
	Hyb Enhancer	No specific data.
	2X Amplification	No specific data.
	Mastermix	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	
Delayed and immediate effe	<u>cts as well as chronic effe</u>	cts from short and long-term exposure
Short term exposure		
	Net evellete	
	Not available.	
effects		
Potential delayed :	Not available.	
effects		
<u>Long term exposure</u>		
Potential immediate :	Not available.	
effects		
	Not available.	
effects		
Potential chronic health effe	ects	
	Not available.	
Sonciusion/Summary	INUL AVAIIANIE.	

Date of issue/Date of revision :

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 Hyb Wash Buffer 2	No known significant effects or critical hazards. 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
	2X Amplification Mastermix	repeated exposure. 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.
	1-96 for ILM	U U
Carcinogenicity	: 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 Ligation Enzyme	No known significant effects or critical hazards. 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.
	1-96 for ILM	No known significant effects or critical hazards.
Mutagenicity	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer Hyb Wash Buffer 1	No known significant effects or critical hazards. 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 2X Amplification Mastermix	No known significant effects or critical hazards. 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.
	1-96 for ILM	-

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	Ŭ
	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.
	1-96 for ILM	ő

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

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

SECTION 12: Ecological information

12.1 Toxicity

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 - <i>Eudiaptomus</i> padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - <i>Lemna</i> aequinoctialis	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - <i>Daphnia hyalina -</i> Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
Hyb Buffer			
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) bhenyl]omegahydroxy-	Acute EC50 210 μg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - <i>Pandalus</i> <i>montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Hyb Enhancer			
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours

SECTION 12: Ecological information

Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
Acute LC50 6569 mg/l Fresh water	Fish	96 hours
Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
Acute NOEC 4640 mg/l Fresh water	Fish	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Hyb Enhancer Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days -		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
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
Hyb Buffer			
tetramethylammonium chloride	<-1.6	-	Low
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
Hyb Enhancer Formamide	-0.82	-	Low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

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 according to IMO instruments

: Not available.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

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

Substances of very high concern

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

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

Product / Ingredient nar	ne	Identifier	S	Designation [Usage]	
End Prep Buffer					
End Prep Buffer				3	
-					
Hyb Buffer					
Hyb Buffer				3	
Linda Embanaan					
Hyb Enhancer				2	
Hyb Enhancer				3 30	
Formamide				30	
Label	: Nuclease-Free Wa		Not appli		
	Library Wash Buffe		Not appli		
	Hyb Wash Buffer 1 Hyb Wash Buffer 2		Not appli Not appli		
	Resuspension Buf		Not appli Not appli		
	End Prep Buffer		Not appli		
	End Prep Enzyme		Not appli		
	Ligation Buffer		Not appli		
	Ligation Enzyme		Not appli		
	Adapter for ILM		Not appli		
	Hyb Blocker		Not appli	icable.	
	Hyb Buffer		Not appli	icable.	
	Hyb Enhancer			ed to professional users.	
	2X Amplification M		Not appli		
Library Binding Be Capture Beads		ads	Not appli		
		- Daina	Not appli		
	Avida Index Prime 1-96 for ILM	r Pairs	Not appli	ICADIE.	
<u>)ther EU regulations</u>					
Ozone depleting substar	nces (1005/2009/EU)				
Not listed.					

<u>C</u>

Not listed.

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

SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria Category Hyb Buffer H3

National regulations

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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 vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification	
End Prep Buffer		
Aquatic Chronic 3, H412	Calculation method	
Hyb Buffer		
Acute Tox. 4, H302	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 H412	Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
Hyb Buffer	
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Hyb Enhancer	
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Full text of classifications [CLP/GHS]

SECTION 16: Other information

SECTION 16: Other Information				
End Prep Buffer Aquatic Chronic 1 Aquatic Chronic 3		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Hyb Buffer Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2 STOT SE 1 STOT SE 3		ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
Hyb Enhancer Carc. 2 Repr. 1B STOT RE 2		CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2		
Date of issue/ Date of revision	: 11/04/2024			
Date of previous issue	: 23/02/2024			
Version Notice to reader	: 1.1			

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