SAFETY DATA SHEET



Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A

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

1.1 Product identifier

: Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number **Product name**

G9418A

UK (GB) REACH Registration number

Registration number	Legal entity
Nuclease-Free Water Exempt from REACH: According to the provisions of Article 2(7)(a) and Annex IV of REACH	-

CAS number

: Nuclease-Free Water 7732-18-5 Not applicable. Library Wash Buffer Hyb Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer **End Prep Buffer** Not applicable. Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Ligation Enzyme Not applicable. Not applicable. Adapter for ILM Hyb Blocker Not applicable. Hvb Buffer Not applicable. Hvb Enhancer Not applicable. 2X Amplification Not applicable. Mastermix Library Binding Beads Not applicable. Not applicable. Capture Beads Avida Index Primer Pairs Not applicable. 1-96 for ILM

Part no. (chemical kit)

G9418A

Part no.

Avida DNA and Duo Reagent Box 2, 96	<u>5282-0142</u>
reactions	
Nuclease-Free Water	5271-0134
Library Wash Buffer	5271-0130
Hyb Wash Buffer 1	5271-0131
Hyb Wash Buffer 2	5271-0132
Resuspension Buffer	5271-0133
Avida DNA Reagent Box 1, 96 Reactions	<u>5282-0140</u>
End Prep Buffer	5271-0121
End Prep Enzyme	5271-0122
Ligation Buffer	5271-0123
Ligation Enzyme	5271-0124
Adapter for ILM	5271-0139
Hyb Blocker	5271-0126
Hyb Buffer	5271-0127
Hyb Enhancer	5271-0128
2X Amplification Mastermix	5271-0129
Avida Beads Box, 96 Reactions	<u>5282-0144</u>
Library Binding Beads	5271-0135
Capture Beads	5271-0136
Avida Index Primer Pairs 1 -96 for ILM	<u>5280-0055</u>
Avida Index Primer Pairs 1-96 for ILM	5274-0079

E000 0440

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

Identified uses : Analytical reagent.

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For research use only.

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

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

: Not for use in diagnostic procedures.

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

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd. 5500 Lakeside Cheadle Royal Business Park, Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

Uses advised against

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition

Library Wash Buffer Mixture Hyb Wash Buffer 1 Mixture Hyb Wash Buffer 2 Mixture Resuspension Buffer Mixture **End Prep Buffer** Mixture End Prep Enzyme Mixture Ligation Buffer Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hyb Buffer Mixture Hvb Enhancer Mixture 2X Amplification Mixture

: Nuclease-Free Water

Mastermix

Library Binding Beads Mixture Capture Beads Mixture Avida Index Primer Pairs Mixture

1-96 for ILM

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

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Mono-constituent substance

SECTION 2: Hazards identification

End Prep Buffer

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

Hyb Buffer

H302ACUTE TOXICITY (oral)Category 4H315SKIN CORROSION/IRRITATIONCategory 2H370SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURECategory 1H412LONG-TERM (CHRONIC) AQUATIC HAZARDCategory 3

Hyb Enhancer

H351CARCINOGENICITYCategory 2H360REPRODUCTIVE TOXICITYCategory 1BH373SPECIFIC TARGET ORGAN TOXICITY - REPEATEDCategory 2

EXPOSURE

Nuclease-Free Water The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Library Wash Buffer The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Wash Buffer 1 The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Wash Buffer 2 The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Resuspension Buffer The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

End Prep Buffer The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

End Prep Enzyme The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Ligation Buffer The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Ligation Enzyme The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Adapter for ILM The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Blocker The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Buffer The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Enhancer The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

2X Amplification Mastermix The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Library Binding Beads The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Capture Beads The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Regulation SI 2019/720 as amended.

Ingredients of unknown

toxicity

: Library Wash Buffer 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%

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SECTION 2: Hazards identification

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%

Percentage of the mixture consisting of ingredient(s) of Library Binding Beads

unknown acute inhalation toxicity: 30 - 60%

Ingredients of unknown ecotoxicity

: Hyb Buffer

Contains 3.4% of components with unknown hazards to the

aquatic environment

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

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

2.2 Label elements

Hazard pictograms : Hyb Buffer





Hyb Enhancer



Signal word

: Nuclease-Free Water No signal word. Library Wash Buffer No signal word. Hyb Wash Buffer 1 No signal word. Hyb Wash Buffer 2 No signal word. Resuspension Buffer No signal word. End Prep Buffer No signal word. End Prep Enzyme No signal word. No signal word. Ligation Buffer Ligation Enzyme No signal word. Adapter for ILM No signal word. Hyb Blocker No signal word. Hyb Buffer Danger Danger Hyb Enhancer No signal word.

2X Amplification

Mastermix

Library Binding Beads

Capture Beads

Avida Index Primer Pairs

No signal word. No signal word.

No signal word.

1-96 for ILM

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. 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. Hyb Enhancer

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H360 - May damage fertility or the unborn child.

H373 - May cause damage to organs through prolonged or

repeated exposure.

2X Amplification

No known significant effects or critical hazards.

Mastermix

Library Binding Beads No known significant effects or critical hazards.

Capture Beads No known significant effects or critical hazards.

Avida Index Primer Pairs No known significant effects or critical hazards.

1-96 for ILM

Precautionary statements

Prevention

Response

 Nuclease-Free Water Library Wash Buffer
 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer
 Not applicable. Not applicable. Not applicable.
 Not applicable.
 Not applicable.
 Not applicable.
 Not applicable.

End Prep Buffer P273 - Avoid release to the environment.

End Prep Enzyme
Ligation Buffer
Not applicable.
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Not applicable.
Not applicable.
Not applicable.

Hyb Buffer P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

P270 - Do not eat, drink or smoke when using this product.

Hyb Enhancer P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or

face protection.

P260 - Do not breathe vapour.

2X Amplification

Mastermix

Not applicable.

Library Binding Beads Not applicable.
Capture Beads Not applicable.
Avida Index Primer Pairs Not applicable.

1-96 for ILM

1-96 for

1-90 101 1LIVI

: 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. Not applicable. End Prep Enzyme Not applicable. Ligation Buffer 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

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SECTION 2: Hazards identification

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Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 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. Not applicable. Adapter for ILM Not applicable. Hyb Blocker Hyb Buffer Not applicable. Hvb Enhancer Not applicable. 2X Amplification Not applicable.

Mastermix

Library Binding Beads Not applicable.
Capture Beads Not applicable.
Avida Index Primer Pairs Not applicable.

1-96 for ILM

Disposal

 Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1
 Not applicable. Not applicable.

Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable.

End Prep Buffer P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

End Prep Enzyme
Ligation Buffer
Not applicable.
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Not applicable.
Not applicable.
Not applicable.
Not applicable.

Hyb Buffer P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

Hyb Enhancer P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

2X Amplification Not applicable.

Mastermix

Library Binding Beads Not applicable.
Capture Beads Not applicable.
Avida Index Primer Pairs Not applicable.

1-96 for ILM

Hazardous ingredients

Supplemental label

elements

: Hyb Buffer tetramethylammonium chloride

Hyb Enhancer formamide

Nuclease-Free Water
Library Wash Buffer
Hyb Wash Buffer 1

Not applicable.
Not applicable.
Not applicable.

Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
End Prep Buffer
Not applicable.
Not applicable.
Not applicable.

End Prep Enzyme Safety data sheet available on request.

Ligation Buffer Not applicable.

Ligation Enzyme Safety data sheet available on request.

Adapter for ILM Not applicable.
Hyb Blocker Not applicable.
Hyb Buffer Not applicable.
Hyb Enhancer Not applicable.

2X Amplification Safety data sheet available on request.

Mastermix

Library Binding Beads Not applicable.
Capture Beads Not applicable.
Avida Index Primer Pairs Not applicable.

1-96 for ILM

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SECTION 2: Hazards identification

:

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

Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 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. Not applicable. Adapter for ILM Not applicable. Hyb Blocker Hyb Buffer Not applicable.

Hvb Enhancer Restricted to professional users.

2X Amplification Not applicable.

Mastermix

Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs Not applicable.

1-96 for ILM

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hvb 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. Not applicable. Adapter for ILM Hvb 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

Tactile warning of danger

: Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Not applicable. Resuspension Buffer **End Prep Buffer** Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Not applicable. Ligation Enzyme Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hvb 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

2.3 Other hazards

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SECTION 2: Hazards identification

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

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

Library Wash Buffer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Hyb Wash Buffer 1 This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Hyb Wash Buffer 2 This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Resuspension Buffer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

End Prep Buffer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

End Prep Enzyme This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Ligation Buffer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Ligation Enzyme This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Adapter for ILM This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Hyb Blocker This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Hyb Buffer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Hyb Enhancer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

2X Amplification This mixture does not contain any substances that are

Mastermix assessed to be a PBT or a vPvB.

Library Binding Beads This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Capture Beads This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Avida Index Primer Pairs

1-96 for ILM

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: Nuclease-Free Water None known. Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. None known. Resuspension Buffer 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 None known.

1-96 for ILM

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SECTION 3: Composition/information on ingredients

Library Wash Buffer Mixture Hyb Wash Buffer 1 Mixture Hyb Wash Buffer 2 Mixture Resuspension Buffer Mixture End Prep Buffer Mixture End Prep Enzyme Mixture Ligation Buffer Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hyb Buffer Mixture Hyb Enhancer Mixture 2X Amplification Mastermix Mixture Library Binding Beads Mixture Capture Beads Mixture Avida Index Primer Pairs 1-96 for Mixture

ILM

Product/ingredient name	Identifiers	%	Classification	Type
Nuclease-Free Water water	UK (GB) REACH #: Annex IV REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	[1]
End Prep Buffer Magnesium chloride	EC: 232-094-6 CAS: 7786-30-3	<2.5	Aquatic Chronic 1, H410 (M=1)	[1]
End Prep Enzyme Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
Ligation Enzyme Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
Hyb Buffer tetramethylammonium chloride	EC: 200-880-8 CAS: 75-57-0	≥10 - <15	Acute Tox. 2, H300 Acute Tox. 3, H311 Skin Irrit. 2, H315 STOT SE 1, H370 (central nervous system (CNS)) (oral) Aquatic Chronic 2,	[1]
Dextran sulfate sodium	CAS: 9011-18-1	≤3	H411 Skin Irrit. 2, H315 Eye Irrit. 2, H319 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 (M=10) Aquatic Chronic 1, H410 (M=1)	[1] [2]
Hyb Enhancer				

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

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SECTION 3: Composition/information on ingredients

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

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

Type

Ligation Enzyme

Hyb Enhancer

2X Amplification Mastermix

Hyb Buffer

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

[1] Substance with a workplace exposure limit [1] Substance with a workplace exposure limit

[1] Substance classified with a health or environmental hazard

[2] Substance of equivalent concern

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit [1] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Nuclease-Free Water

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

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. 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. 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. 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. 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. 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. 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. 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. 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. 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. Immediately flush eyes with plenty of water, occasionally

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SECTION 4: First aid measures

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Hyb Buffer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

Hyb Enhancer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.

Get medical attention.

2X Amplification Immediately flush eyes with plenty of water, occasionally Mastermix 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. 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 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.

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

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

comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

Resuspension Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if 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

surveillance for 48 hours.

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

comfortable for breathing. Get medical attention if symptoms

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

comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

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

comfortable for breathing. Get medical attention if symptoms occur.

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

comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be

Inhalation

: Nuclease-Free Water

Capture Beads

1-96 for ILM

Hyb Wash Buffer 1

Hyb Wash Buffer 2

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

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SECTION 4: First aid measures

dangerous to the person providing aid to give mouth-tomouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Hyb Enhancer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is 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-tomouth 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 symptoms

Library Binding Beads

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

Capture Beads

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

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

Skin contact : Nuclease-Free Water Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Library Wash Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Hyb Wash Buffer 1

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Hyb Wash Buffer 2

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Resuspension Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

End Prep Buffer

symptoms occur. Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

End Prep Enzyme

symptoms occur. Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if symptoms occur.

Ligation Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ligation Enzyme

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Adapter for ILM

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Hyb Blocker Flush contaminated skin with plenty of water. Remove

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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

Flush contaminated skin with plenty of water. Remove Mastermix 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

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Library Wash Buffer Wash out mouth with water. If material has been swallowed

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Hyb Wash Buffer 1 Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Hyb Wash Buffer 2 Wash out mouth with water. If material has been swallowed

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Resuspension Buffer Wash out mouth with water. If material has been swallowed

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

End Prep Buffer Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do

so by medical personnel.

Wash out mouth with water. If material has been swallowed **End Prep Enzyme**

> 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

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Ligation Enzyme Wash out mouth with water. If material has been swallowed

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Adapter for ILM Wash out mouth with water. If material has been swallowed

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Hyb Blocker Wash out mouth with water. If material has been swallowed

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Hyb Buffer Wash out mouth with water. Remove dentures if any. If

material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious,

place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

Hyb Enhancer Wash out mouth with water. Remove dentures if any. If

> material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

2X Amplification Mastermix

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Library Binding Beads

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Capture Beads Wash out mouth with water. If material has been swallowed

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Avida Index Primer Pairs

1-96 for ILM

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of

water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

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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 without

suitable training.

Hyb Wash Buffer 1 No action shall be taken involving any personal risk or without

suitable training.

Hyb Wash Buffer 2 No action shall be taken involving any personal risk or without

suitable training.

Resuspension Buffer No action shall be taken involving any personal risk or without

suitable training.

End Prep Buffer No action shall be taken involving any personal risk or without

suitable training.

End Prep Enzyme No action shall be taken involving any personal risk or without

suitable training.

Ligation Buffer No action shall be taken involving any personal risk or without

suitable training.

Ligation Enzyme No action shall be taken involving any personal risk or without

suitable training.

Adapter for ILM No action shall be taken involving any personal risk or without

suitable training.

Hyb Blocker No action shall be taken involving any personal risk or without

suitable training.

Hyb Buffer No action shall be taken involving any personal risk or without

suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Hyb Enhancer No action shall be taken involving any personal risk or without

suitable training. If it is suspected that fumes are still present,

the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

2X Amplification No action shall be taken involving any personal risk or without

Mastermix 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.

No specific data.

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

over-exposure signs/symptoms

Eye contact : Nuclease-Free Water
Library Wash Buffer
Hyb Wash Buffer 1

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. No specific data. End Prep Enzyme No specific data. Ligation Buffer 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.

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Avida Index Primer Pairs No specific data.

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Inhalation

: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. No specific data. Hyb Wash Buffer 1 Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. 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 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
Capture Beads
Avida Index Primer Pairs
No specific data.
No specific data.
No specific data.

1-96 for ILM

Skin contact

: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. No specific data. Hyb Wash Buffer 1 Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. End Prep Buffer No specific data. End Prep Enzyme No specific data. No specific data. Ligation Buffer 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 No specific data.

2X Amplification

Mastermix

Library Binding Beads No specific data.

Capture Beads No specific data.

Avida Index Primer Pairs 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 No specific data. Resuspension Buffer No specific data. End Prep Buffer No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths

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2X Amplification Mastermix

Library Binding Beads Capture Beads Avida Index Primer Pairs

1-96 for ILM

skeletal malformations No specific data.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

symptoms may be delayed. The exposed person may need

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist

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. In case of inhalation of decomposition products in a fire,

to be kept under medical surveillance for 48 hours.

immediately if large quantities have been ingested or inhaled.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

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.

to be kept under medical surveillance for 48 hours.

No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

End Prep Buffer

Ligation Buffer

Hyb Blocker

Hyb Buffer

Capture Beads

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1

End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer

Mastermix Library Binding Beads No specific treatment. No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment. No specific treatment. No specific treatment.

No specific treatment.

Notes to physician

: Nuclease-Free Water

End Prep Enzyme

Ligation Enzyme

Adapter for ILM

Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

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Hyb Wash Buffer 2 Resuspension Buffer

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Capture Beads Avida Index Primer Pairs No specific treatment.

No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing

media

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix

Library Binding Beads Capture Beads

Avida Index Primer Pairs

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 Hyb Buffer Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads Capture Beads

Avida Index Primer Pairs None known.

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. 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. 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. 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. 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. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

None known. None known. None known.

None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known.

None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Nuclease-Free Water

Library Wash Buffer

In a fire or if heated, a pressure increase will occur and the container may burst.

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

container may burst.

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 Resuspension Buffer

container may burst. In a fire or if heated, a pressure increase will occur and the

container may burst.

End Prep Buffer

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

discharged to any waterway, sewer or drain.

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SECTION 5: Firefighting measures

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

container may burst.

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

container may burst.

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

container may burst.

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

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

Mastermix 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

No specific data. Library Wash Buffer

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Decomposition products may include the following materials: Hyb Wash Buffer 1

> halogenated compounds metal oxide/oxides

Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer**

No specific data. No specific data.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

Decomposition products may include the following materials: End Prep Enzyme

> 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 No specific data.

Adapter for ILM Hyb Blocker No specific data.

Decomposition products may include the following materials: Hyb Buffer

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

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SECTION 5: Firefighting measures

Hyb Enhancer Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

2X Amplification Mastermix Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Library Binding Beads Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

Capture Beads

Avida Index Primer Pairs No specific data.

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No specific data. No specific data.

5.3 Advice for firefighters Special protective actions for fire-fighters

: 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

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

taken involving any personal risk or without suitable training.

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

Promptly isolate the scene by removing all persons from the

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.

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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	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	Promptly isolate the scene by removing all persons from the
	1-96 for ILM	vicinity of the incident if there is a fire. No action shall be
		taken involving any personal risk or without suitable training.
Special protective equipment for fire-	: Nuclease-Free Water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
fighters	Library Wash Buffer	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Wash Buffer 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Resuspension Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	End Prep Buffer	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	End Prep Enzyme	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Ligation Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Ligation Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Adapter for ILM	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Hyb Blocker	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	Hyb Buffer	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Enhancer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	2X Amplification Mastermix	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Library Binding Beads	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Capture Beads	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Nuclease-Free Water

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

Library Wash Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

Hyb Wash Buffer 1

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

Hyb Wash Buffer 2

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Resuspension Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

End Prep Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

End Prep Enzyme

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Ligation Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Ligation Enzyme

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Adapter for ILM

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Hyb Blocker

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Hyb Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

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SECTION 6: Accidental release measures

Hyb Enhancer No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

2X Amplification Mastermix No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Library Binding Beads
No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

Capture Beads No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

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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.

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-

emergency personnel".

Library Wash Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

End Prep Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

End Prep Enzyme If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Ligation Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Ligation Enzyme If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Adapter for ILM If specialised clothing is required to deal with the spillage,

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take note of any information in Section 8 on suitable and

unsuitable materials. See also the information in "For non-

emergency personnel".

Hyb Blocker If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Hyb Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Hyb Enhancer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

2X Amplification Mastermix If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

unsuitable materials. See also the information in "For non-

emergency personnel".

Library Binding Beads If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

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

emergency personnel".

6.2 Environmental precautions

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Library Wash Buffer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Hyb Wash Buffer 1 Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Hyb Wash Buffer 2 Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Resuspension 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).

End Prep Buffer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large

quantities.

End Prep Enzyme Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Ligation Buffer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant

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authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Ligation Enzyme Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Adapter for ILM Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Hyb Blocker Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Hyb Buffer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large

quantities.

Hyb Enhancer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

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).

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Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Nuclease-Free Water

Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively,

or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Library Wash Buffer Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Hyb Wash Buffer 1 Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Hyb Wash Buffer 2 Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

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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.

Hyb Enhancer Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

2X Amplification Mastermix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Library Binding Beads Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Capture Beads Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

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Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

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of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

: Nuclease-Free Water Put on appropriate personal protective equipment (see

Section 8).

Put on appropriate personal protective equipment (see Library Wash Buffer

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).

Put on appropriate personal protective equipment (see **End Prep Buffer**

Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse

container.

End Prep Enzyme Put on appropriate personal protective equipment (see

Section 8).

Ligation Buffer Put on appropriate personal protective equipment (see

Section 8).

Ligation Enzyme Put on appropriate personal protective equipment (see

Section 8).

Adapter for ILM Put on appropriate personal protective equipment (see

Section 8).

Hyb Blocker Put on appropriate personal protective equipment (see

Section 8).

Hyb Buffer Put on appropriate personal protective equipment (see

> Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain

product residue and can be hazardous. Do not reuse

container.

Hyb Enhancer Put on appropriate personal protective equipment (see

> Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Empty containers retain product residue and can be

hazardous. Do not reuse container.

2X Amplification Put on appropriate personal protective equipment (see Mastermix

Section 8).

Library Binding Beads Put on appropriate personal protective equipment (see

Section 8).

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SECTION 7: Handling and storage

Advice on general

occupational hygiene

Capture Beads Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Avida Index Primer Pairs 1-96 for ILM Section 8). : Nuclease-Free Water Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Library Wash Buffer Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Hyb Wash Buffer 1 Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Hyb Wash Buffer 2 Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective

equipment before entering eating areas. See also Section 8 for additional information on hygiene measures

for additional information on hygiene measures.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

End Prep Buffer Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

End Prep Enzyme Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Ligation Buffer Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

where this material is handled, stored and processed.

Ligation Enzyme Eating, drinking and smoking should be prohibited in areas

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Adapter for ILM Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

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Hyb Blocker Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Hyb Buffer Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Hyb Enhancer Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

2X Amplification Eating, drinking and smoking should be prohibited in areas Mastermix where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Library Binding Beads Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Capture Beads Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

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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

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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

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

contamination. See Section 10 for incompatible materials before handling or use.

before nandling or use.

Hyb Wash Buffer 2 Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Resuspension Buffer Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

End Prep Buffer Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

End Prep Enzyme Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Ligation Buffer Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

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

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Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

before handling or use.

Adapter for ILM

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

contamination. See Section 10 for incompatible materials

before handling or use.

Hyb Blocker

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

contamination. See Section 10 for incompatible materials

before handling or use.

Hyb Buffer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in

resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid

environmental contamination. See Section 10 for incompatible materials before handling or use.

Hyb Enhancer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in

resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid

environmental contamination. See Section 10 for incompatible materials before handling or use.

2X Amplification Mastermix Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Library Binding Beads

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

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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 wellventilated 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.

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

Seveso Directive - Reporting thresholds

Danger criteria

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

7.3 Specific end use(s)

Recommendations

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hvb 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 applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial sector specific solutions

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hvb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Not available.

Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.

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

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Hyb Blocker
Hyb Buffer
Not available.
Hyb Enhancer
Not available.
Avida Index Primer Pairs
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.

SECTION 8: Exposure controls/personal protection

1-96 for ILM

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
End Prep Enzyme	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
Ligation Enzyme	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
Hyb Enhancer	
Formamide	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 56 mg/m³ 15 minutes. STEL: 30 ppm 15 minutes. TWA: 37 mg/m³ 8 hours. TWA: 20 ppm 8 hours.
2X Amplification Mastermix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

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

DNELs/DMELs

Product/ingredient name	Type	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/m³	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m ³	Workers	Systemic
Hyb Enhancer	DNE		0.050/	Manta un	Contant in
Formamide	DNEL	Long term Dermal	0.952 mg/ kg bw/day	Workers	Systemic

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

Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A						
SECTION	SECTION 8: Exposure controls/personal protection					
	DNE	L Long term Inhalation	6.6 mg/m³	Workers	Systemic	

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

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

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Nuclease-Free Water Liquid.
Library Wash Buffer Liquid.
Hyb Wash Buffer 1 Liquid

Hyb Wash Buffer 1 Liquid. Liquid. Hyb Wash Buffer 2 Resuspension Buffer Liquid. **End Prep Buffer** Liquid. End Prep Enzyme Liquid. Ligation Buffer Liquid. Liquid. Ligation Enzyme Adapter for ILM Liquid.

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SECTION 9: Physical and chemical properties

Hyb Blocker Liquid.
Hyb Buffer Liquid.
Hyb Enhancer Liquid.
2X Amplification Liquid.
Mastermix

Library Binding Beads Liquid.
Capture Beads Liquid.
Avida Index Primer Pairs Liquid.

1-96 for ILM

Colour: Nuclease-Free Water Colourless.

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. Not available. Hyb Enhancer 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. Hvb Wash Buffer 1 Not available. Hvb 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
Capture Beads
Avida Index Primer Pairs
Not available.
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 Mastermix

Library Binding Beads Not available.

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Not available.

SECTION 9: Physical and chemical properties

Capture Beads Not available.
Avida Index Primer Pairs Not available.

1-96 for ILM

Melting point/freezing point

Nuclease-Free Water 0°C Library Wash Buffer Not

Library Wash Buffer Not available. 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.
Ligation Enzyme Not available.

Adapter for ILM 0°C Hyb Blocker 0°C

Hyb Buffer Not available. Hyb Enhancer Not available. 2X Amplification Not available.

Mastermix

Library Binding Beads Not available. Capture Beads Not available.

Avida Index Primer Pairs 0°C

1-96 for ILM

Initial boiling point and boiling range

Nuclease-Free Water
 Library Wash Buffer
 Hyb Wash Buffer 1
 Hyb Wash Buffer 2
 100°C
 Not available.
 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 BufferNot available.Hyb EnhancerNot available.2X AmplificationNot 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
Library Wash Buffer
Not applicable.
Not applicable.

Not applicable. Hyb Wash Buffer 1 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. Not applicable. Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads Not applicable.
Capture Beads Not applicable.
Avida Index Primer Pairs Not applicable.

1-96 for ILM

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Not applicable.

SECTION 9: Physical and chemical properties

Upper/lower flammability: Nuclease-Free Wateror explosive limitsLibrary Wash Buffer

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

Flash point

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

Auto-ignition temperature

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SECTION 9: Physical and chemical properties

Ingredient name	°C	Method
Library Wash Buffer		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
End Prep Enzyme		
glycerol	370	-
Ligation Buffer		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
Ligation Enzyme		
glycerol	370	-
Hyb Enhancer		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
formamide	>500	ASTM D 2155-66
2X Amplification Mastermix		
glycerol	370	_
Library Binding Beads		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-

Decomposition temperature

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	

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SECTION 9: Physical and chemical properties

SECTION 9: Physical	and chemical prop	perties
pH :	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	7 Not available. 7.2 to 7.6 7.2 to 7.6 8 8 7.5 8 7.5 8 7.5 Not available. Not available. 8 Not available. 8
Viscosity :	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	Not available.

Library Binding Beads

Avida Index Primer Pairs Not available.

Capture Beads

1-96 for ILM

Solubility(ies)

Media	Result
Nuclease-Free Water	
water	Soluble
Library Wash Buffer	
water	Soluble
Hyb Wash Buffer 1	
water	Soluble
Hyb Wash Buffer 2	
water	Soluble
Resuspension Buffer	
water	Soluble
End Prep Buffer	
water	Soluble
End Prep Enzyme	
water	Soluble
Ligation Buffer	
water	Soluble
Ligation Enzyme	
water	Soluble
Adapter for ILM	
water	Soluble
Hyb Blocker	
water	Soluble
Hyb Buffer	

Not available.

Not available.

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SECTION 9: Physical and chemical properties

water	Soluble
Hyb Enhancer	
water	Soluble
Library Binding Beads	
water	Soluble
Capture Beads	
water	Soluble
Avida Index Primer Pairs 1-96 for ILM	
water	Soluble
	Hyb Enhancer water Library Binding Beads water Capture Beads water Avida Index Primer Pairs 1-96 for ILM

Partition coefficient: n-octanol/water

: Nuclease-Free Water -1.38 Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Not applicable. Ligation Buffer 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

Vapour pressure

: Nuclease-Free Water 2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C]

	Vapour Pressure at 20°C			Vapour pressure at 50		
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	0.00000004	-	-	-	-
Hyb Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
Resuspension Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Buffer						

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SECTION 9: Physical and chemical properties

and chemical p	nopert	162				
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	-
, mater		2.0		02.200	12.0	
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	
water	17.5	2.3	-	92.230	12.3	-
Hyb Blocker						
water	17.5	2.3	-	92.258	12.3	-
Hyb Buffer						
water	17.5	2.3	-	92.258	12.3	-
tetramethylammonium			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	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-
Capture Beads						
water	17.5	2.3	-	92.258	12.3	-
, aco	' ' ' '	2.0		52.200	12.0	

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SECTION 9: Physical and chemical properties							
	Avida Index Primer Pairs 1-96 for ILM						
	water	17.5	2.3	-	92.258	12.3	-
Evaporation rate :	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	Not Not Not Not Not Not Not Not Not Not	available.				
	Library Binding Beads Capture Beads Avida Index Primer Pa 1-96 for ILM	Not iirs Not	available. available. available.				
Relative density :	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 Pat 1-96 for ILM	Not Not Not Not Not Not Not Not Not Not	available.				
Vapour density :	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pat 1-96 for ILM	Not Not Not Not Not Not Not Not Not Not	2 [Air = 1] available.				

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SECTION 9: Physical and chemical properties

Exp	Inci	VΔ	nro	nai	rtipe
	IUSI	IVE	DI U	NE	เมษอ

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

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 Not available. Mastermix

Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs Not available.

1-96 for ILM

Particle characteristics Median particle size

: Nuclease-Free Water Not applicable. Not applicable. Library Wash Buffer Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. End Prep Buffer Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. 2X Amplification Not applicable. Mastermix

Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs Not applicable.

1-96 for ILM

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity

: Nuclease-Free Water No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this Library Wash Buffer

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.

No specific test data related to reactivity available for this **End Prep Buffer**

product or its ingredients.

End Prep Enzyme No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this Ligation Buffer

product or its ingredients.

No specific test data related to reactivity available for this Ligation Enzyme

product or its ingredients.

Adapter for ILM No specific test data related to reactivity available for this

product or its ingredients.

Hyb Blocker No specific test data related to reactivity available for this

product or its ingredients.

Hyb Buffer No specific test data related to reactivity available for this

product or its ingredients.

Hyb Enhancer No specific test data related to reactivity available for this

product or its ingredients.

2X Amplification No specific test data related to reactivity available for this

Mastermix product or its ingredients.

Library Binding Beads No specific test data related to reactivity available for this

product or its ingredients.

Capture Beads No specific test data related to reactivity available for this

product or its ingredients.

Avida Index Primer Pairs

1-96 for ILM

No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability

10.3 Possibility of

hazardous reactions

: Nuclease-Free Water The product is stable. Library Wash Buffer The product is stable. The product is stable. Hyb Wash Buffer 1 Hyb Wash Buffer 2 The product is stable. Resuspension Buffer The product is stable. End Prep Buffer The product is stable. End Prep Enzyme The product is stable. Ligation Buffer The product is stable. Ligation Enzyme The product is stable. Adapter for ILM The product is stable. Hyb Blocker The product is stable. Hvb Buffer The product is stable. Hyb Enhancer The product is stable.

2X Amplification Mastermix

Library Binding Beads

Capture Beads

The product is stable. The product is stable.

The product is stable.

Avida Index Primer Pairs The product is stable.

1-96 for ILM

: Nuclease-Free Water

Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous Library Wash Buffer

reactions will not occur.

Hyb Wash Buffer 1 Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Wash Buffer 2 Under normal conditions of storage and use, hazardous

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SECTION 10: Stability and reactivity

reactions will not occur.

Under normal conditions of storage and use, hazardous Resuspension Buffer

reactions will not occur.

End Prep Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

End Prep Enzyme Under normal conditions of storage and use, hazardous

reactions will not occur.

Ligation Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

Ligation Enzyme Under normal conditions of storage and use, hazardous

reactions will not occur.

Adapter for ILM Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Blocker Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Enhancer Under normal conditions of storage and use, hazardous

reactions will not occur.

2X Amplification Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous Library Binding Beads

reactions will not occur.

Capture Beads Under normal conditions of storage and use, hazardous

reactions will not occur.

Avida Index Primer Pairs

1-96 for ILM

Mastermix

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

No specific data. : Nuclease-Free Water No specific data. Library Wash Buffer Hyb Wash Buffer 1 No specific data. Hvb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data. Hyb Enhancer No specific data. 2X Amplification No specific data. Mastermix

Library Binding Beads

Capture Beads

1-96 for ILM

No specific data. No specific data. Avida Index Primer Pairs No specific data.

10.5 Incompatible materials

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification

Mastermix

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

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SECTION 10: Stability and reactivity

Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: Nuclease-Free Water

Library Wash Buffer

Hyb 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.

Hyb Wash Buffer 1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hyb Wash Buffer 2 Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Resuspension Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous **End Prep Buffer** decomposition products should not be produced.

Under normal conditions of storage and use, hazardous End Prep Enzyme decomposition products should not be produced.

Ligation Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous Ligation Enzyme

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.

> Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous Hyb Enhancer

> decomposition products should not be produced. Under normal conditions of storage and use, hazardous

2X Amplification decomposition products should not be produced. Mastermix 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	-
End Prep Enzyme				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Enzyme				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Hyb Buffer				
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	-
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium	LD50 Oral	Rat	20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), . alpha[LD50 Oral	Rat	2800 mg/kg	-

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(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-				
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists		>21 mg/l	4 hours
	LD50 Dermal		17 g/kg	-
	LD50 Oral	Rat	5570 mg/kg	-
2X Amplification				
Mastermix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
End Prep Buffer					
Magnesium chloride	2800	N/A	N/A	N/A	N/A
End Prep Enzyme					
Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Enzyme Glycerol	12600	N/A	N/A	N/A	N/A
Hyb Buffer Hyb Buffer tetramethylammonium chloride Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	456.2 50 20600 500	2737.2 300 N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A
Hyb Enhancer Formamide	5570	17000	N/A	N/A	N/A
2X Amplification Mastermix Glycerol	12600	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
End Prep Enzyme Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Ligation Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Hyb Buffer Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
2X Amplification Mastermix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

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	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	

Sensitiser

Conclusion/Summary

Mutagenicity

Not available.

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

Not available.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Not available.

Information on likely routes of exposure

: Nuclease-Free Water 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 Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. End Prep Enzyme Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Ligation Buffer

Ligation Enzyme Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Adapter for ILM

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

1-96 for ILM

Library Binding Beads Capture Beads Avida Index Primer Pairs

Not available. Not available. Not available.

Potential acute health effects

Inhalation

: Nuclease-Free Water No known significant effects or critical hazards. No known significant effects or critical hazards. Library Wash Buffer 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.

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Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards.

Hyb Buffer Causes damage to organs following a single exposure if

inhaled.

Hyb Enhancer No known significant effects or critical hazards. 2X Amplification No known significant effects or critical hazards.

Mastermix

Library Binding Beads No known significant effects or critical hazards. Capture Beads No known significant effects or critical hazards.

Avida Index Primer Pairs No known significant effects or critical hazards.

1-96 for ILM

Ingestion

Nuclease-Free Water No known significant effects or critical hazards. Library Wash Buffer No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 No known significant effects or critical hazards. Resuspension Buffer No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. No known significant effects or critical hazards. End Prep Enzyme 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.

Hvb Enhancer No known significant effects or critical hazards. 2X Amplification No known significant effects or critical hazards.

Mastermix

Library Binding Beads No known significant effects or critical hazards. No known significant effects or critical hazards. Capture Beads No known significant effects or critical hazards.

Avida Index Primer Pairs

1-96 for ILM

Skin contact

: Nuclease-Free Water No known significant effects or critical hazards. 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. 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. No known significant effects or critical hazards. Ligation Buffer Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards.

Hyb Buffer Causes damage to organs following a single exposure in

contact with skin. Causes skin irritation.

Hvb Enhancer No known significant effects or critical hazards. 2X Amplification No known significant effects or critical hazards.

Mastermix

Library Binding Beads No known significant effects or critical hazards. Capture Beads No known significant effects or critical hazards. No known significant effects or critical hazards.

Avida Index Primer Pairs

1-96 for ILM

Nuclease-Free Water No known significant effects or critical hazards. Library Wash Buffer No known significant effects or critical hazards. Hvb 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. No known significant effects or critical hazards. **End Prep Buffer** 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. No known significant effects or critical hazards.

Adapter for ILM Hyb Blocker

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Eye contact

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No known significant effects or critical hazards.

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Hyb Buffer No known significant effects or critical hazards. Hyb Enhancer No known significant effects or critical hazards. 2X Amplification No known significant effects or critical hazards.

Mastermix

Library Binding Beads No known significant effects or critical hazards. Capture Beads No known significant effects or critical hazards. Avida Index Primer Pairs No known significant effects or critical hazards.

1-96 for ILM

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. No specific data. Ligation Enzyme Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

2X Amplification

Mastermix

Library Binding Beads No specific data. Capture Beads No specific data. Avida Index Primer Pairs 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 No specific data. Resuspension Buffer No specific data. End Prep Buffer No specific data. No specific data. End Prep Enzyme Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data.

No specific data. Adverse symptoms may include the following: Hyb Enhancer

reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification No specific data.

Mastermix

Hyb Buffer

Library Binding Beads No specific data. Capture Beads No specific data. Avida Index Primer Pairs No specific data.

1-96 for II M

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.

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SECTION 11: Toxicological information

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:

No specific data.

reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification

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.

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. No specific data. End Prep Enzyme Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hvb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

pain or irritation watering

redness

Hyb Enhancer No specific data. 2X Amplification No specific data.

Mastermix

Library Binding Beads No specific data.
Capture Beads No specific data.
Avida Index Primer Pairs No specific data.

1-96 for ILM

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

Conclusion/Summary: Not available.

General : Nuclease-Free Water No known significant effects or critical hazards.

No known significant effects or critical hazards. Library Wash Buffer 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.

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Hyb Blocker No known significant effects or critical hazards. Hyb Buffer No known significant effects or critical hazards.

Hyb Enhancer May cause damage to organs through prolonged or repeated

exposure

2X Amplification No known significant effects or critical hazards.

Mastermix

Library Binding Beads
Capture Beads
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Avida Index Primer Pairs No known significant effects or critical hazards.

1-96 for ILM

Carcinogenicity : Nuclea

No known significant effects or critical hazards. : Nuclease-Free Water No known significant effects or critical hazards. Library Wash Buffer 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. No known significant effects or critical hazards. Hyb Blocker 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

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. No known significant effects or critical hazards. No known significant effects or critical hazards.

Mutagenicity

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1

Hyb Wash Buffer 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 Pai

Avida Index Primer Pairs 1-96 for ILM No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Reproductive toxicity

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

No known significant effects or critical hazards. May damage fertility or the unborn child.

No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Mastermix

Library Binding Beads
Capture Beads
No known significant effects or critical hazards.
No known significant effects or critical hazards.
Avida Index Primer Pairs
No known significant effects or critical hazards.

1-96 for ILM

: End Prep Buffer Adverse symptoms may include the following: May cause

skin sensitisation.

Adapter for ILM Adverse symptoms may include the following: May cause

skin sensitisation.

Hyb Enhancer Adverse symptoms may include the following: May cause

eye irritation. May cause skin irritation.

SECTION 12: Ecological information

12.1 Toxicity

Other information

Product/ingredient name	Result	Species	Exposure
End Prep Buffer Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus	72 hours
Magnesium chionae	Acute EC30 > 100 High Fresh water	subspicatus	72 Hours
	Acute EC50 180000 μg/l Fresh water	Crustaceans - Calanoid	48 hours
		copepod - Eudiaptomus padanus ssp. padanus - Adult	
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lesser	96 hours
		Duckweed - Lemna aequinoctialis	
	Acute LC50 32000 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
		hyalina - Adult	
	Acute LC50 2120 mg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus	72 hours
	Charais NOFO 0.4 may// Farab water	subspicatus	05 days
	Chronic NOEC 0.1 mg/l Fresh water	Fish - common carp - <i>Cyprinus</i> carpio	35 days
End Dran Engine			
End Prep Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
		mykiss	
Ligation Enzyme			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
		mykiss	
Hyb Buffer			
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 μg/l Fresh water	Algae - Green algae -	96 hours
alpha[Selenastrum sp.	
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
	Acute LC50 10800 μg/l Marine water	Crustaceans - Aesop shrimp -	48 hours
	Acute LC50 2.518 mg/l Fresh water	Pandalus montagui - Adult Daphnia - Water flea - Daphnia	48 hours
		magna	
	Acute LC50 7200 μg/l Fresh water	Fish - Rainbow trout, donaldson	96 hours
		trout - Oncorhynchus mykiss	
Hyb Enhancer	1 5050, 500 #5		70.1
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 6569 mg/l Fresh water Acute NOEC 4640 mg/l Fresh water	Fish	96 hours 72 hours
	Acute NOEC 4640 mg/l Fresh water	Algae Fish	96 hours
	Addition to the might restrict water	1 1311	JO HOUIS

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2X Amplification Mastermix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
End Prep Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Hyb Enhancer Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
2X Amplification Mastermix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease-Free Water water	-	-	Readily
Hyb Buffer tetramethylammonium chloride	-	-	Readily
Hyb Enhancer Formamide	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Nuclease-Free Water water	-1.38	-	Low
End Prep Enzyme Glycerol	-1.76	-	Low
Ligation Enzyme Glycerol	-1.76	-	Low
Hyb Buffer			

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•			
tetramethylammonium chloride	<-1.6	-	Low
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
prierryijomeganydroxy-			
Hyb Enhancer Formamide	-0.82	-	Low
2X Amplification Mastermix			
Glycerol	-1.76	-	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		Not applicable (Inorganic)	N/A	N/A

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

Packaging

Methods of disposal

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

: 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

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SECTION 14: Transport information

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

Additional information

14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

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

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

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SECTION 15: Regulatory information

Product / Ingredient name	Identifiers	Status
End Prep Buffer End Prep Buffer		3
Hyb Buffer Hyb Buffer		3
Hyb Enhancer Hyb Enhancer Formamide		3 30 30
2X Amplification Mastermix Nonylphenol, ethoxylated		46a

Label

: Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 2 Resuspension Buffer Not applicable. Not applicable. **End Prep Buffer** End Prep Enzyme Not applicable. Not applicable. Ligation Buffer Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hvb Blocker Not applicable. Hvb Buffer Not applicable.

Hyb Enhancer Restricted to professional users.

2X Amplification Mastermix
Library Binding Beads
Capture Beads
Avida Index Primer Pairs 1-96
Not applicable.
Not applicable.
Not applicable.

for ILM

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria

Category
Hyb Buffer
H3

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : Not determined.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

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

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

Tull text of abbieviated if Statements		
End Prep Buffer		
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Hyb Buffer		
H300	Fatal if swallowed.	
H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious 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 Enhance	r	

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SECTION 16: Other information

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

End Prep Buffer

Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Hyb Buffer

Acute Tox. 2 ACUTE TOXICITY - Category 2
Acute Tox. 3 ACUTE TOXICITY - Category 3
Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

STOT SE 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Hyb Enhancer

Carc. 2 CARCINOGENICITY - Category 2

Repr. 1B REPRODUCTIVE TOXICITY - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

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