SAFETY DATA SHEET



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

Section 1. Identification

1.1 Product identifier

Product name

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

Number G9419B

Part no. (chemical kit)

Part no.

: G9419B

: <u>Avida Methyl Reagent Box 2, 16 Reactions/</u> <u>5282-0147/5282-0149</u>

Avida Methyl and Duo Reagent Box 3, 16

Reactions

Nuclease-Free Water 5271-0107 Avida Methyl Reagent Box 1, 16 Reactions 5282-0145 **End Prep Buffer** 5271-0094 End Prep Enzyme 5271-0095 Ligation Buffer 5271-0096 Ligation Enzyme 5271-0097 Adapter for ILM 5271-0112 Hyb Blocker 5271-0099 Hyb Buffer 5271-0100 Hyb Enhancer 5271-0101 Soft Conversion Reagent A 5271-0110 2X Methyl Amplification Mastermix 5271-0111 Avida Methyl Reagent Box 2, 16 Reactions 5282-0147 Library Wash Buffer 5271-0103 Hyb Wash Buffer 1 5271-0104 Hyb Wash Buffer 2 5271-0105 Avida Methyl and Duo Reagent Box 3, 16 5282-0149 Reactions

Soft Conversion Reagent B 5271-0113 Soft Conversion Binding Beads 5271-0114 5X Soft Conversion Wash Buffer 5271-0115 Soft Conversion Elution Buffer 5271-0116 Soft Conversion Repair Solution 5271-0117 Avida Beads Box, 16 Reactions 5282-0143 Library Binding Beads 5271-0108 Capture Beads 5271-0109 Avida Index Primer Pairs 17-32 for ILM 5280-0053 Index Primer Mix for ILM 17-24 5274-0077 Index Primer Mix for ILM 25-32 5274-0078

Validation date : 4/8/2024

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

Identified uses : Analytical reagent.

For research use only.

Nuclease-Free Water 0.88 ml (16 reactions) End Prep Buffer 0.124 ml (16 reactions) End Prep Enzyme 0.053 ml (16 reactions) Ligation Buffer 0.44 ml (16 reactions) 0.106 ml (16 reactions) Ligation Enzyme Adapter for ILM 0.088 ml (16 reactions) Hyb Blocker 0.044 ml (16 reactions) Hyb Buffer 0.81 ml (16 reactions) Hyb Enhancer 0.132 ml (16 reactions) 0.062 ml (16 reactions) Soft Conversion Reagent A 2X Methyl Amplification Mastermix 0.440 ml (16 reactions) Library Wash Buffer 6.336 ml (16 reactions) Hyb Wash Buffer 1 5.280 ml (16 reactions)

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Hyb Wash Buffer 2 2.64 ml (16 reactions)

Soft Conversion Reagent B 2 x 0.750 ml

Soft Conversion Binding Beads
5X Soft Conversion Wash Buffer
2 ml (16 reactions)
Soft Conversion Elution Buffer
0.264 ml (16 reactions)
Soft Conversion Repair Solution
0.088 ml (16 reactions)
Library Binding Beads
1.532 ml (16 reactions)
Capture Beads
0.141 ml (16 reactions)

Index Primer Mix for ILM 17-24 8 x 0.005 ml
Index Primer Mix for ILM 25-32 8 x 0.005 ml

Uses advised against : Not for use in diagnostic procedures. 8 x 0.0

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Adapter for ILM

Hyb Enhancer

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : Nuclease-Free Water While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

End Prep Buffer This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).
End Prep Enzyme This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Ligation Buffer While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Ligation Enzyme This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Hyb Blocker While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Hyb Buffer This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA

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Soft Conversion Reagent A

2X Methyl Amplification Mastermix

Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Library Wash Buffer

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Hyb Wash Buffer 1

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Hyb Wash Buffer 2

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Soft Conversion Reagent B

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Library Binding Beads

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Capture Beads

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Index Primer Mix for ILM

17-24

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information

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critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Index Primer Mix for ILM

25-32

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

End Prep Buffer

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

End Prep Enzyme

H320 EYE IRRITATION - Category 2B

Ligation Enzyme

H320 EYE IRRITATION - Category 2B

Hyb Buffer

H302 ACUTE TOXICITY (oral) - Category 4
H315 SKIN IRRITATION - Category 2

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

Hyb Enhancer

H351 CARCINOGENICITY - Category 2

H360 TOXIC TO REPRODUCTION - Category 1B

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Soft Conversion Reagent A

H227 FLAMMABLE LIQUIDS - Category 4 H319 EYE IRRITATION - Category 2A

H360 TOXIC TO REPRODUCTION - Category 1B

Soft Conversion Reagent B

H319 EYE IRRITATION - Category 2A

Soft Conversion Binding Beads

H226 FLAMMABLE LIQUIDS - Category 3
H314 SKIN CORROSION - Category 1C
H318 SERIOUS EYE DAMAGE - Category 1
H400 AQUATIC HAZARD (ACUTE) - Category 1
H411 AQUATIC HAZARD (LONG-TERM) - Category 2

Soft Conversion Elution Buffer

H314 SKIN CORROSION - Category 1 H318 SERIOUS EYE DAMAGE - Category 1

Ingredients of unknown

toxicity

: Hyb Buffer Percentage of the mixture consisting of ingredient

(s) of unknown acute oral toxicity: 1 - 10%

Hyb Buffer Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

3.4%

2X Methyl Amplification Mastermix Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

10%

Soft Conversion Reagent B Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

70%

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2.2 GHS label elements

Hazard pictograms

: Hyb Buffer





Hyb Enhancer



Soft Conversion Reagent A





Soft Conversion Reagent B



Soft Conversion Binding Beads







Soft Conversion Elution Buffer

: Nuclease-Free Water



Signal word

End Prep Buffer
End Prep Enzyme
Ligation Buffer
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Hyb Buffer
Hyb Enhancer
Soft Conversion Reagent A
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Soft Conversion Reagent B

Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32 No signal word. No signal word.

Warning

No signal word.

Warning

No signal word.

No signal word.

Danger Danger Danger

No signal word. No signal word.

No signal word. No signal word.

Warning Danger

No signal word.

Danger

No signal word. No signal word. No signal word. No signal word. No signal word.

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Hazard statements

: Nuclease-Free Water No known significant effects or critical hazards. **End Prep Buffer** H412 - Harmful to aquatic life with long lasting

effects.

H320 - Causes eye irritation. End Prep Enzyme

Ligation Buffer No known significant effects or critical hazards.

Ligation Enzyme H320 - Causes eye irritation.

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

Hyb Buffer H302 - Harmful if swallowed. H315 - Causes skin irritation.

H370 - Causes damage to organs. (central nervous

system (CNS))

H412 - Harmful to aquatic life with long lasting

effects.

H351 - Suspected of causing cancer. Hyb Enhancer

> H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (blood)

H227 - Combustible liquid. Soft Conversion Reagent A

2X Methyl Amplification Mastermix

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Index Primer Mix for ILM 17-24

Index Primer Mix for ILM 25-32

Library Binding Beads

Capture Beads

Hyb Enhancer

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child. 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. Soft Conversion Reagent B H319 - Causes serious eye irritation.

H226 - Flammable liquid and vapor.

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects. No known significant effects or critical hazards. H314 - Causes severe skin burns and eye damage. 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.

Precautionary statements Prevention

Nuclease-Free Water Not applicable.

End Prep Buffer P273 - Avoid release to the environment.

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

Hyb Buffer P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

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

product.

P264 - Wash thoroughly after handling. P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing

and eve or face protection. P260 - Do not breathe vapor.

P201 - Obtain special instructions before use. Soft Conversion Reagent A

P280 - Wear protective gloves, protective clothing

and eye or face protection.

P210 - Keep away from flames and hot surfaces.

No smoking.

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2X Methyl Amplification Mastermix
Library Wash Buffer
Not applicable.
Not applicable.

Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable.

Soft Conversion Reagent B P280 - Wear eye or face protection.

Soft Conversion Binding Beads P280 - Wear protective gloves, protective clothing

and eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P241 - Use explosion-proof electrical, ventilating or

lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P273 - Avoid release to the environment.

5X Soft Conversion Wash Buffer Not applicable.

Soft Conversion Elution Buffer P280 - Wear protective gloves, protective clothing

Not applicable.

Not applicable.

Not applicable.

and eye or face protection.

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads
Index Primer Mix for ILM 17-24
Index Primer Mix for ILM 25-32

Not applicable.
Not applicable.
Not applicable.

: Nuclease-Free Water End Prep Buffer

End Prep Buffer Not applicable.
End Prep Enzyme P305 + P351 + P338 - IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Ligation Buffer Not applicable.

Ligation Enzyme P305 + P351 + P338 - IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Adapter for ILM Not applicable.

Hyb Blocker Not applicable.

Hyb Buffer P308 + P311 - IF exposed: Call a POISON

CENTER or doctor.

P362 + P364 - Take off contaminated clothing and

wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of

water.

Hyb Enhancer P308 + P313 - IF exposed or concerned: Get

medical advice or attention.

Soft Conversion Reagent A P308 + P313 - IF exposed or concerned: Get

medical advice or attention.

P305 + P351 + P338 - IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

2X Methyl Amplification Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Not applicable. Not applicable. Not applicable.

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Response

Soft Conversion Reagent B P305 + P351 + P338 - IF IN EYES: Rinse

> cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

P391 - Collect spillage. Soft Conversion Binding Beads

P304 + P310 - IF INHALED: Immediately call a

POISON CENTER or doctor.

P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON

CENTER or doctor.

P363 - Wash contaminated clothing before reuse. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor.

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

Not applicable.

P304 + P310 - IF INHALED: Immediately call a

POISON CENTER or doctor.

P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.

P363 - Wash contaminated clothing before reuse. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor.

Soft Conversion Repair Solution

Library Binding Beads

Nuclease-Free Water

Capture Beads

End Prep Buffer End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM Hyb Blocker

Hyb Enhancer

Hyb Buffer

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Soft Conversion Reagent A P403 + P235 - Store in a well-ventilated place.

Keep cool.

2X Methyl Amplification Mastermix

Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable.

Soft Conversion Binding Beads P403 + P235 - Store in a well-ventilated place.

Storage

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	Keep cool.
5X Soft Conversion Wash Buffer	Not applicable.
Soft Conversion Elution Buffer	Not applicable.
Soft Conversion Repair Solution	Not applicable.
Library Binding Beads	Not applicable.
Capture Beads	Not applicable.
Index Primer Mix for ILM 17-24	Not applicable.
Index Primer Mix for ILM 25-32	Not applicable.
Nucleon Cros Water	Niet englischis

Disposal

Supplemental label

elements

Nuclease-Free Water Not applicable.

End Prep Buffer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

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

Hyb Buffer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

P501 - Dispose of contents and container in Hyb Enhancer

accordance with all local, regional, national and

international regulations.

P501 - Dispose of contents and container in Soft Conversion Reagent A

accordance with all local, regional, national and

international regulations.

Not applicable. 2X Methyl Amplification Mastermix

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Not applicable. Soft Conversion Reagent B

Soft Conversion Binding Beads P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

5X Soft Conversion Wash Buffer Not applicable.

Soft Conversion Elution Buffer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

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

: Nuclease-Free Water None known. End Prep Buffer None known. End Prep Enzyme None known.

Ligation Buffer None known. Ligation Enzyme None known. Adapter for ILM None known. Hyb Blocker None known. Hyb Buffer None known. Hvb Enhancer None known.

Soft Conversion Reagent A None known. 2X Methyl Amplification Mastermix None known. Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. Soft Conversion Reagent B None known.

Soft Conversion Binding Beads Keep container tightly closed. Do not breathe vapor or spray. Do not taste or swallow. Use only

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with adequate ventilation. Wash thoroughly after

handling.

5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
None known.
None known.
None known.
None known.
None known.
None known.

Index Primer Mix for ILM 17-24 None known. Index Primer Mix for ILM 25-32 None known.

2.3 Other hazards

Hazards not otherwise classified

Nuclease-Free Water None known. End Prep Buffer None known. End Prep Enzyme None known. Ligation Buffer None known. Ligation Enzyme None known. Adapter for ILM None known. Hyb Blocker None known. Hyb Buffer None known. Hyb Enhancer None known. Soft Conversion Reagent A None known. 2X Methyl Amplification Mastermix None known. Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. Soft Conversion Reagent B None known.

Soft Conversion Binding Beads Causes respiratory tract burns. Causes digestive

tract burns.

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

None known.

Section 3. Composition/information on ingredients

Substance/mixture

Nuclease-Free Water Substance End Prep Buffer Mixture End Prep Enzyme Mixture Ligation Buffer Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hyb Buffer Mixture Hvb Enhancer Mixture Soft Conversion Reagent A Mixture 2X Methyl Amplification Mastermix Mixture Library Wash Buffer Mixture Hyb Wash Buffer 1 Mixture Hyb Wash Buffer 2 Mixture Soft Conversion Reagent B Mixture Soft Conversion Binding Beads Mixture 5X Soft Conversion Wash Buffer Mixture Soft Conversion Elution Buffer Mixture Soft Conversion Repair Solution Mixture Library Binding Beads Mixture Capture Beads Mixture Index Primer Mix for ILM 17-24 Mixture Index Primer Mix for ILM 25-32 Mixture

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Nuclease-Free Water		
water	100	7732-18-5
End Prep Buffer		
·	10.5	7700 00 0
Magnesium chloride	<2.5	7786-30-3
End Prep Enzyme		
Glycerol	≥50 - ≤75	56-81-5
Ligation Enzyme		
Glycerol	≥50 - ≤75	56-81-5
Hyb Buffer		
tetramethylammonium chloride	≥10 - <15	75-57-0
Dextran sulfate sodium	≤3	9011-18-1
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega	<0.1	9036-19-5
hydroxy-	10.1	1000 100
Hyb Enhancer		
	>00	75 40 7
Formamide	≥90	75-12-7
Soft Conversion Reagent A		
tetrahydro-2-furylmethanol	≥90	97-99-4
Hyb Wash Buffer 1		
Sodium dodecyl sulphate	≤0.3	151-21-3
Hyb Wash Buffer 2		
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega	<0.1	9036-19-5
hydroxy-		
Soft Conversion Reagent B		
ammonium hydrogensulphite	≥50 - ≤75	10192-30-0
animonium nyurogensuipinte	-00 - =10	10192-30-0
Soft Conversion Binding Beads		
Ethanol	≥50 - ≤75	64-17-5
	<u> </u>	

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Section 3. Composition/information on ingredients

Guanidinium thiocyanate	≥10 - ≤21	593-84-0
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	≤6.5	9036-19-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Adapter for ILM

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact: Nuclease-Free Water Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

End Prep Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

End Prep Enzyme Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Ligation Buffer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Ligation Enzyme Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. 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.

medical attention it initiation occurs.

Hyb Blocker Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Hyb Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison

center or physician.

Hyb Enhancer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

Soft Conversion Reagent A Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

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

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Library Wash Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Hyb Wash Buffer 1 Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Hyb Wash Buffer 2 Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Soft Conversion Reagent B Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

Soft Conversion Binding Beads Get medical attention immediately. Call a poison

center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

physician.

5X Soft Conversion Wash Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Soft Conversion Elution Buffer Get medical attention immediately. Call a poison

center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

physician.

Soft Conversion Repair Solution Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Library Binding Beads Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Capture Beads Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Index Primer Mix for ILM 17-24 Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Index Primer Mix for ILM 25-32 Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

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Inhalation : Nuclease-Free Water

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

attention if symptoms occur.

End Prep Buffer

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

for 48 hours.

End Prep Enzyme

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a soller tight bolt ar weighband.

collar, tie, belt or waistband.

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

nours

Ligation Enzyme

Ligation Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

collar, tie, belt or waistband.

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

Adapter for ILM

Hyb Blocker

Hyb Buffer

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Hyb Enhancer

may need to be kept under medical surveillance for 48 hours.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

Soft Conversion Reagent A Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

2X Methyl Amplification Mastermix Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Library Wash Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a Hyb Wash Buffer 1 position comfortable for breathing. Get medical

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a Hyb Wash Buffer 2

position comfortable for breathing. Get medical

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a Soft Conversion Reagent B

> position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

hours.

Soft Conversion Binding Beads

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still

to be kept under medical surveillance for 48

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present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If

unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical attention if symptoms occur.

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If

unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

belt or waistband.

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

Library Binding Beads 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.

Index Primer Mix for ILM 17-24 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical attention if symptoms occur.

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

attention if symptoms occur.

: Nuclease-Free Water Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. End Prep Enzyme Remove contaminated clothing and shoes. Get

medical attention if symptoms occur. Wash

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Capture Beads

Index Primer Mix for ILM 25-32

Skin contact

End Prep Buffer

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clothing before reuse. Clean shoes thoroughly

before reuse.

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. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Adapter for ILM Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hyb Blocker Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hyb Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

Hyb Enhancer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Soft Conversion Reagent A Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

2X Methyl Amplification Mastermix Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Library Wash Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hyb Wash Buffer 1 Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hyb Wash Buffer 2 Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Soft Conversion Reagent B Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Soft Conversion Binding Beads Get medical attention immediately. Call a poison

center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing

and shoes. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

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physician. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. 5X Soft Conversion Wash Buffer Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Get medical attention immediately. Call a poison Soft Conversion Elution Buffer center or physician. 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Soft Conversion Repair Solution

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

Library Binding Beads Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur. Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Index Primer Mix for ILM 17-24 Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Index Primer Mix for ILM 25-32 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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

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. Remove dentures if End Prep Enzyme

any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash out mouth with water. 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

Ligation Buffer

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Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

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

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

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. 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. 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

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2X Methyl Amplification Mastermix

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

occur.

Library Wash Buffer

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

occur.

Hyb Wash Buffer 1

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

occur.

Hyb Wash Buffer 2

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

occur

Soft Conversion Reagent B

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated

place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been

promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious,

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

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Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

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.

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

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.

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

occur.

Index Primer Mix for ILM 17-24 Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not

induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Index Primer Mix for ILM 25-32 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.

4.2 Most important symptoms/effects, acute and delayed Potential acute health effects

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Eye contact

: Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hvb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A

2X Methyl Amplification Mastermix Library Wash Buffer

Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B

Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads

Capture Beads

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

Inhalation

Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer

Hyb Wash Buffer 1 Hyb Wash Buffer 2

Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads

Capture Beads

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

Skin contact

Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer Soft Conversion Reagent A

2X Methyl Amplification Mastermix No known significant effects or critical hazards.

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

Causes eye irritation.

No known significant effects or critical hazards. Causes eye irritation.

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.

Causes serious eye irritation.

No known significant effects or critical hazards. Causes serious eye irritation.

Causes serious eye damage.

No known significant effects or critical hazards.

Causes serious eye damage.

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. 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. Causes damage to organs following a single exposure if inhaled.

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

Corrosive to the respiratory system.

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. 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. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.

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

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Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution

Library Binding Beads Capture Beads

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

Nuclease-Free Water

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

End Prep Buffer

Hyb Enhancer

Soft Conversion Reagent A

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2

Soft Conversion Reagent B Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution

Library Binding Beads Capture Beads

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32 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.

Causes severe burns.

No known significant effects or critical hazards.

Causes severe burns.

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.

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. No known significant effects or critical hazards. No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs

following a single exposure if swallowed.

No known significant effects or critical hazards. No known significant effects or critical hazards. 2X Methyl Amplification Mastermix No known significant effects or critical hazards. May cause burns to mouth, throat and stomach. Corrosive to the digestive tract. Causes burns. 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.

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

Over-exposure signs/symptoms

Eye contact

Ingestion

: Nuclease-Free Water No specific data. End Prep Buffer No specific data.

End Prep Enzyme Adverse symptoms may include the following:

> irritation watering redness

Ligation Buffer No specific data.

Ligation Enzyme Adverse symptoms may include the following:

> irritation watering redness

Adapter for ILM No specific data. Hyb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer No specific data.

Soft Conversion Reagent A Adverse symptoms may include the following:

pain or irritation

watering redness

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2X Methyl Amplification Mastermix No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data.

Soft Conversion Reagent B Adverse symptoms may include the following:

pain or irritation

watering redness

Soft Conversion Binding Beads Adverse symptoms may include the following:

pain watering redness

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

pain watering redness

Soft Conversion Repair Solution No specific data.

Library Binding Beads
Capture Beads
Index Primer Mix for ILM 17-24
Index Primer Mix for ILM 25-32
Index Primer Mix for ILM 25-32
Index Primer Mix for ILM 25-32
Index Primer Mix for ILM 35-32
Index Primer Mix for ILM 35-32

Index Primer Mix for ILM 17-24
Index Primer Mix for ILM 25-32
Nuclease-Free Water
End Prep Buffer
End Prep Enzyme
No specific data.

Ligation Buffer
No specific data.
Ligation Enzyme
No specific data.
Adapter for ILM
No specific data.
Hyb Blocker
No specific data.
Hyb Buffer
No specific data.

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Methyl Amplification Mastermix No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Soft Conversion Reagent B No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

respiratory tract irritation

coughing

5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
No specific data.
No specific data.
No specific data.
No specific data.

Capture Beads No specific data. Index Primer Mix for ILM 17-24 No specific data. Index Primer Mix for ILM 25-32 No specific data.

Inhalation

Date of issue: 04/08/2024 **24/92**

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Nuclease-Free Water
 End Prep Buffer
 End Prep Enzyme
 Ligation Buffer
 Ligation Enzyme
 Adapter for ILM
 Hyb Blocker
 No specific data.
 No specific data.

Hyb Buffer Adverse symptoms may include the following:

irritation redness

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Methyl Amplification Mastermix No specific data.

Library Wash Buffer No specific data.
Hyb Wash Buffer 1 No specific data.
Hyb Wash Buffer 2 No specific data.
Soft Conversion Reagent B No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

blistering may occur

5X Soft Conversion Wash Buffer No specific data. Soft Conversion Elution Buffer Adverse symptom

Adverse symptoms may include the following:

pain or irritation

redness

Soft Conversion Repair Solution No specific data.

Library Binding Beads
Capture Beads
Index Primer Mix for ILM 17-24
No specific data.
No specific data.
No specific data.

Index Primer Mix for ILM 17-24 No specific data.

Index Primer Mix for ILM 25-32 No specific data.

Nuclease-Free Water No specific data.

End Prep Buffer

End Prep Enzyme

Ligation Buffer

No specific data.

Ligation Enzyme

No specific data.

Hyb Blocker

No specific data.

No specific data.

No specific data.

No specific data.

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Methyl Amplification Mastermix No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Soft Conversion Reagent B No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

stomach pains

Ingestion

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5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

stomach pains

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32 No specific data. No specific data. No specific data. No specific data. No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Nuclease-Free Water Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

End Prep Buffer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

End Prep Enzyme Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Ligation Buffer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Ligation Enzyme Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Adapter for ILM Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Blocker Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Buffer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Hyb Enhancer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Soft Conversion Reagent A Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

2X Methyl Amplification Mastermix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Library Wash Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Wash Buffer 1 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Wash Buffer 2 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Soft Conversion Reagent B 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.

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Soft Conversion Binding Beads In case of inhalation of decomposition products in a

> fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

5X Soft Conversion Wash Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Soft Conversion Elution Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Soft Conversion Repair Solution In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Library Binding Beads Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Capture Beads Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Index Primer Mix for ILM 17-24 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Index Primer Mix for ILM 25-32 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments

: Nuclease-Free Water No specific treatment. End Prep Buffer No specific treatment. End Prep Enzyme No specific treatment. Ligation Buffer No specific treatment. Ligation Enzyme No specific treatment. Adapter for ILM No specific treatment. Hyb Blocker No specific treatment. Hyb Buffer No specific treatment. Hyb Enhancer No specific treatment.

Soft Conversion Reagent A No specific treatment. 2X Methyl Amplification Mastermix No specific treatment. Library Wash Buffer No specific treatment. Hvb Wash Buffer 1 No specific treatment. No specific treatment. Hyb Wash Buffer 2 Soft Conversion Reagent B No specific treatment.

Soft Conversion Binding Beads No specific treatment. 5X Soft Conversion Wash Buffer No specific treatment. No specific treatment. Soft Conversion Elution Buffer Soft Conversion Repair Solution No specific treatment. Library Binding Beads No specific treatment.

Capture Beads No specific treatment. Index Primer Mix for ILM 17-24 No specific treatment. Index Primer Mix for ILM 25-32 No specific treatment.

Protection of first-aiders

Nuclease-Free Water No action shall be taken involving any personal risk

End Prep Buffer

or without suitable training. No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk

End Prep Enzyme

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

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

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or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Adapter for ILM No action shall be taken involving any personal risk

or without suitable training.

Hyb Blocker No action shall be taken involving any personal risk

or without suitable training.

Hyb Buffer No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Hyb Enhancer No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

Soft Conversion Reagent A No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

2X Methyl Amplification Mastermix 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.

Soft Conversion Reagent B 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.

Soft Conversion Binding Beads No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

5X Soft Conversion Wash Buffer No action shall be taken involving any personal risk

or without suitable training.

Soft Conversion Elution Buffer No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

Soft Conversion Repair Solution No action shall be taken involving any personal risk

or without suitable training.

Library Binding Beads No action shall be taken involving any personal risk

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or without suitable training.

Capture Beads

No action shall be taken in

No action shall be taken involving any personal risk

or without suitable training.

Index Primer Mix for ILM 17-24 No action shall be taken involving any personal risk

or without suitable training.

Index Primer Mix for ILM 25-32 No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Nuclease-Free Water Use an extinguishing agent suitable for the

surrounding fire.

End Prep Buffer Use an extinguishing agent suitable for the

surrounding fire.

End Prep Enzyme Use an extinguishing agent suitable for the

surrounding fire.

Ligation Buffer Use an extinguishing agent suitable for the

surrounding fire.

Ligation Enzyme Use an extinguishing agent suitable for the

surrounding fire.

Adapter for ILM Use an extinguishing agent suitable for the

surrounding fire.

Hyb Blocker Use an extinguishing agent suitable for the

surrounding fire.

Hyb Buffer Use an extinguishing agent suitable for the

surrounding fire.

Hyb Enhancer Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Reagent A Use dry chemical, CO₂, water spray (fog) or foam.

2X Methyl Amplification Mastermix Use an extinguishing agent suitable for the

surrounding fire.

Library Wash Buffer Use an extinguishing agent suitable for the

surrounding fire.

Hyb Wash Buffer 1 Use an extinguishing agent suitable for the

surrounding fire.

Hyb Wash Buffer 2 Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Reagent B Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Binding Beads Use dry chemical, CO₂, water spray (fog) or foam.

surrounding fire.

surrounding fire.

surrounding fire.

Library Binding Beads

Use an extinguishing agent suitable for the

surrounding fire.

Capture Beads

Use an extinguishing agent suitable for the

surrounding fire.

Index Primer Mix for ILM 17-24 Use an extinguishing agent suitable for the

surrounding fire.

Index Primer Mix for ILM 25-32 Use an extinguishing agent suitable for the

surrounding fire.

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Unsuitable extinguishing media

Nuclease-Free Water None known. End Prep Buffer None known. End Prep Enzyme None known. Ligation Buffer None known. Ligation Enzyme None known. Adapter for ILM None known. Hyb Blocker None known. Hyb Buffer None known. Hyb Enhancer None known. Soft Conversion Reagent A Do not use water jet.

2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
None known.
Hyb Wash Buffer 2
None known.
Soft Conversion Reagent B
None known.

Soft Conversion Binding Beads Do not use water jet.

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

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

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: Nuclease-Free Water In a fire or if heated, a pressure increase will occur

and the container may burst.

End Prep Buffer In a fire or if heated, a pressure increase will occur

and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to

any waterway, sewer or drain.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

Hyb Blocker In a fire or if heated, a pressure increase will occur

and the container may burst.

Hyb Buffer In a fire or if heated, a pressure increase will occur

and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to

any waterway, sewer or drain.

Hyb Enhancer In a fire or if heated, a pressure increase will occur

and the container may burst.

Soft Conversion Reagent A Combustible liquid. Runoff to sewer may create fire

or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

2X Methyl Amplification Mastermix In a fire or if heated, a pressure increase will occur

and the container may burst.

Library Wash Buffer In a fire or if heated, a pressure increase will occur

and the container may burst.

Hyb Wash Buffer 1 In a fire or if heated, a pressure increase will occur

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and the container may burst.

Hyb Wash Buffer 2 In a fire or if heated, a pressure increase will occur

and the container may burst.

Soft Conversion Reagent B In a fire or if heated, a pressure increase will occur

and the container may burst.

Soft Conversion Binding Beads Flammable liquid and vapor. Runoff to sewer may

create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

5X Soft Conversion Wash Buffer In a fire or if heated, a pressure increase will occur

and the container may burst.

Soft Conversion Elution Buffer In a fire or if heated, a pressure increase will occur

and the container may burst.

Soft Conversion Repair Solution In a fire or if heated, a pressure increase will occur

and the container may burst.

Library Binding Beads In a fire or if heated, a pressure increase will occur

and the container may burst.

Capture Beads In a fire or if heated, a pressure increase will occur

and the container may burst.

Index Primer Mix for ILM 17-24 In a fire or if heated, a pressure increase will occur

and the container may burst.

Index Primer Mix for ILM 25-32 In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products

Nuclease-Free Water No specific data.

End Prep Buffer Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

End Prep Enzyme Decomposition products may include the following

materials: carbon dioxide carbon monoxide

Ligation Buffer Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Ligation Enzyme Decomposition products may include the following

materials: carbon dioxide carbon monoxide No specific data.

Adapter for ILM

Hyb Blocker

No specific data.

No specific data.

Hyb Buffer Decomposition products may include the following

materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
halogenated compounds

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metal oxide/oxides

Hyb Enhancer Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

Soft Conversion Reagent A Decomposition products may include the following

materials: carbon dioxide carbon monoxide

2X Methyl Amplification Mastermix Decomposition products may include the following

materials: carbon dioxide carbon monoxide

Library Wash Buffer Decomposition products may include the following

materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Hyb Wash Buffer 1 Decomposition products may include the following

materials:

halogenated compounds metal oxide/oxides

Hyb Wash Buffer 2 No specific data.

Soft Conversion Reagent B Decomposition products may include the following

materials: nitrogen oxides sulfur oxides

Soft Conversion Binding Beads Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides No specific data.

5X Soft Conversion Wash Buffer No specific data. Soft Conversion Elution Buffer No specific data.

Soft Conversion Repair Solution Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Library Binding Beads Decomposition products may include the following

materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Capture Beads No specific data. Index Primer Mix for ILM 17-24 No specific data. Index Primer Mix for ILM 25-32 No specific data.

5.3 Advice for firefighters

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Special protective actions for fire-fighters

: Nuclease-Free Water

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Promptly isolate the scene by removing all persons **End Prep Buffer**

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 End Prep Enzyme

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Ligation Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Ligation Enzyme Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Promptly isolate the scene by removing all persons Adapter for ILM

> 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 Hyb Blocker

> 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 Hyb Buffer

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 Hyb Enhancer

> from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Soft Conversion Reagent A Promptly isolate the scene by removing all persons

> from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Promptly isolate the scene by removing all persons 2X Methyl Amplification Mastermix

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Library Wash Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Promptly isolate the scene by removing all persons Hyb Wash Buffer 1

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 Hyb Wash Buffer 2

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Soft Conversion Reagent B Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No

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action shall be taken involving any personal risk or without suitable training.

Soft Conversion 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

5X Soft Conversion Wash Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Soft Conversion Elution Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Promptly isolate the scene by removing all persons Soft Conversion Repair Solution

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Library Binding Beads Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Promptly isolate the scene by removing all persons Capture Beads

> from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Index Primer Mix for ILM 17-24 Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Index Primer Mix for ILM 25-32 Promptly isolate the scene by removing all persons

> from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training. Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full 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.

Fire-fighters should wear appropriate protective End Prep Enzyme

> 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.

Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full 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 Blocker Fire-fighters should wear appropriate protective

Special protective

equipment for fire-fighters

: Nuclease-Free Water

End Prep Buffer

Ligation Enzyme

Adapter for ILM

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equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Enhancer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion Reagent A Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

2X Methyl Amplification Mastermix Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Library Wash Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Wash Buffer 1 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion Reagent B Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion 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.

5X Soft Conversion Wash Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion Elution Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion Repair Solution 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.

Index Primer Mix for ILM 17-24 Fire-fighters should wear appropriate protective

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equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Index Primer Mix for ILM 25-32

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

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 spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

No action shall be taken involving any personal

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

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

No action shall be taken involving any personal

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risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

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

personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

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

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

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

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

Hyb Enhancer

Soft Conversion Reagent A

2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

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Soft Conversion 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal

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

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

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

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 spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate

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

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

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 17-24

Index Primer Mix for ILM 25-32

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For emergency responders: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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". If specialized 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".

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Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 17-24

Index Primer Mix for ILM 25-32

: Nuclease-Free Water Avoid dispersal of spilled material and runoff and

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

If specialized 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".

If specialized 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".

If specialized 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".

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If specialized 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". If specialized 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".

If specialized 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".

If specialized 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".

waterways, soil or air).

Avoid dispersal of spilled material and runoff and **End Prep Buffer**

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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled 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).

6.2 Environmental precautions

Ligation Buffer

Ligation Enzyme

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Adapter for ILM Avoid dispersal of spilled 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 spilled 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 spilled 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 spilled material and runoff and

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

waterways, soil or air).

Soft Conversion Reagent A Avoid dispersal of spilled 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).

contact with 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 spilled 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 spilled 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 spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Soft Conversion Reagent B Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Soft Conversion Binding Beads Avoid dispersal of spilled 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. Collect spillage.

5X Soft Conversion Wash Buffer Avoid dispersal of spilled material and runoff and

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

waterways, soil or air).

Soft Conversion Elution Buffer Avoid dispersal of spilled 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).

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

caused environmental pollution (sewers, waterways, soil or air).

Library Binding Beads Avoid dispersal of spilled 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 spilled material and runoff and

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

waterways, soil or air).

Index Primer Mix for ILM 17-24 Avoid dispersal of spilled material and runoff and

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

waterways, soil or air).

Index Primer Mix for ILM 25-32 Avoid dispersal of spilled 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 materials for containment and cleaning up

Methods for cleaning up : Nuclease-Free Water Stop leak if without risk. Move containers from spill

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

disposal contractor.

End Prep Buffer Stop leak if without risk. Move containers from spill

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

disposal contractor.

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

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disposal contractor.

Ligation Enzyme Stop leak if without risk. Move containers from spill

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

disposal contractor.

Adapter for ILM Stop leak if without risk. Move containers from spill

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

disposal contractor.

Hyb Blocker Stop leak if without risk. Move containers from spill

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

disposal contractor.

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

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

disposal contractor.

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

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

disposal contractor.

Soft Conversion Reagent A Stop leak if without risk. Move containers from spill

area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb

with an inert dry material and place in an appropriate waste disposal container. Dispose of

via a licensed waste disposal contractor.

2X Methyl Amplification Mastermix Stop leak if without risk. Move containers from spill

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

disposal contractor.

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

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

disposal contractor.

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

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

disposal contractor.

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

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

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disposal container. Dispose of via a licensed waste

disposal contractor.

Soft Conversion Reagent B Stop leak if without risk. Move containers from spill

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

disposal contractor.

Stop leak if without risk. Move containers from spill

area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if watersoluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an

appropriate waste disposal container. Dispose of

via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill 5X Soft Conversion Wash Buffer

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

disposal contractor.

Stop leak if without risk. Move containers from spill Soft Conversion Elution Buffer

area. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an

inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

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

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

disposal contractor.

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

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

disposal contractor.

Index Primer Mix for ILM 17-24 Stop leak if without risk. Move containers from spill

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

disposal contractor.

Index Primer Mix for ILM 25-32 Stop leak if without risk. Move containers from spill

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

disposal contractor.

Soft Conversion Binding Beads

Soft Conversion Repair Solution

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7.1 Precautions for safe handling

: Nuclease-Free Water

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.

Put on appropriate personal protective equipment

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

not reuse container.

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved

alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do

not reuse container.

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 vapor 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.

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 vapor 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. Put on appropriate personal protective equipment

Protective measures

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Enhancer

Soft Conversion Reagent A

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(see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosionproof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

2X Methyl Amplification Mastermix

Put on appropriate personal protective equipment

(see Section 8).

Library Wash Buffer

Put on appropriate personal protective equipment

(see Section 8).

Hyb Wash Buffer 1

Put on appropriate personal protective equipment (see Section 8).

Hyb Wash Buffer 2

Put on appropriate personal protective equipment

(see Section 8).

Soft Conversion Reagent B

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Soft Conversion Binding Beads

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosionproof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

5X Soft Conversion Wash Buffer

Put on appropriate personal protective equipment (see Section 8).

Soft Conversion Elution Buffer

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor 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

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the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

Soft Conversion Repair Solution

Put on appropriate personal protective equipment

(see Section 8).

Library Binding Beads Put on appropriate personal protective equipment

(see Section 8).

Capture Beads Put on appropriate personal protective equipment

(see Section 8).

Index Primer Mix for ILM 17-24

Put on appropriate personal protective equipment

(see Section 8).

Index Primer Mix for ILM 25-32

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

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. Eating, drinking and smoking should be prohibited

in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited

in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited

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

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

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Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

2X Methyl Amplification Mastermix Eating, drinking and smoking should be prohibited

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas 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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Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas 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.

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Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 17-24

Index Primer Mix for ILM 25-32

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

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7.2 Conditions for safe storage, including any incompatibilities

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

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

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Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

2X Methyl Amplification Mastermix

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

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

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

original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed

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Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

Soft Conversion Binding Beads

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

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5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

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

incompatible materials before handling or use.

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Index Primer Mix for ILM 17-24

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

Index Primer Mix for ILM 25-32

7.3 Specific end use(s)

Recommendations

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

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 **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Not available.

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

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

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Nuclease-Free Water water	None.
End Prep Buffer Magnesium chloride	None.
End Prep Enzyme Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: respirable fraction TWA: 10 mg/m³ 8 hours. Form: total dust
Ligation Enzyme Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: respirable fraction TWA: 10 mg/m³ 8 hours. Form: total dust
Hyb Buffer tetramethylammonium chloride Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	None. None. None.

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Section 8. Exposure controls/personal protection

Hyb Enhancer

Formamide

ACGIH TLV (United States, 1/2023).

Absorbed through skin.

TWA: 1 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 20 ppm 8 hours. TWA: 30 mg/m³ 8 hours. STEL: 30 ppm 15 minutes. STEL: 45 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2020).

Absorbed through skin. TWA: 10 ppm 10 hours. TWA: 15 mg/m³ 10 hours.

CAL OSHA PEL (United States, 5/2018).

Absorbed through skin. TWA: 18 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

Soft Conversion Reagent A

tetrahydro-2-furylmethanol

OARS WEEL (United States, 4/2022).

Absorbed through skin. TWA: 0.5 ppm 8 hours.

Hyb Wash Buffer 1

Sodium dodecyl sulphate

None.

Hyb Wash Buffer 2

Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-. omega.-hydroxy-

None.

Soft Conversion Reagent B

ammonium hydrogensulphite

None.

Soft Conversion Binding Beads

Ethanol

ACGIH TLV (United States, 1/2023).

STEL: 1000 ppm 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

NIOSH REL (United States, 10/2020).

TWA: 1000 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. OSHA PEL (United States, 5/2018).

TMA: 1000 ppm 9 bours

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

CAL OSHA PEL (United States, 5/2018).

TWA: 1900 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

None.

Guanidinium thiocyanate

Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.

omega.-hydroxy-

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

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Section 8. Exposure controls/personal protection

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor 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.

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.

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: chemical splash goggles.

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.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state

: Nuclease-Free Water Liquid. End Prep Buffer Liquid. End Prep Enzyme Liquid. Ligation Buffer Liquid. Ligation Enzyme Liquid. Adapter for ILM Liquid. Hyb Blocker Liquid. Hyb Buffer Liquid. Hvb Enhancer Liquid. Soft Conversion Reagent A Liquid.

2X Methyl Amplification Mastermix Liquid. [Clear.]

Library Wash Buffer Liquid.
Hyb Wash Buffer 1 Liquid.
Hyb Wash Buffer 2 Liquid.
Soft Conversion Reagent B Liquid.

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Soft Conversion Binding Beads Liauid. 5X Soft Conversion Wash Buffer Liquid. Soft Conversion Elution Buffer Liquid. Soft Conversion Repair Solution Liquid. Library Binding Beads Liquid. Capture Beads Liquid. Index Primer Mix for ILM 17-24 Liquid. Index Primer Mix for ILM 25-32 Liquid. Nuclease-Free Water Colorless. **End Prep Buffer** Not available. End Prep Enzyme Not available. **Ligation Buffer** Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24 Not available. Index Primer Mix for ILM 25-32 Not available. Nuclease-Free Water Odorless. 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. Hvb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available.

Odor

Color

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

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Section 9. Physica	ı and cnemicai propert	lies and sate
Odor threshold	: Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Methyl Amplification Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads Index Primer Mix for ILM 17-24	Not available. Not available.
	Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32	Not available.
рН	: Nuclease-Free Water	7
	End Prep Buffer	8
	End Prep Enzyme	7.5
	Ligation Buffer	8
	Ligation Enzyme	7.5
	Adapter for ILM	8
	Hyb Blocker	8
	Hyb Buffer	7.5
	Hyb Enhancer	Not available. Not available.
	Soft Conversion Reagent A	
	2X Methyl Amplification Mastermix Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	7.2 to 7.6
	Hyb Wash Buffer 2	7.2 to 7.6
	Soft Conversion Reagent B	4.5 to 5.5
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	13
	Soft Conversion Repair Solution	8
	Library Binding Beads	8
	Capture Beads	Not available.
	Index Primer Mix for ILM 17-24	8
	Index Primer Mix for ILM 25-32	8
Melting point/freezing point	: Nuclease-Free Water	0°C (32°F)
.	End Prep Buffer	Not àvailable.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	0°C (32°F)
	Hyb Blocker	0°C (32°F)
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	<-120°C (<-184°F)
	2X Methyl Amplification Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wach Ruffer 1	0°C (32°E)

Hyb Wash Buffer 1

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0°C (32°F)

0°C (32°F) Hyb Wash Buffer 2 Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer 0°C (32°F) Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24 0°C (32°F) Index Primer Mix for ILM 25-32 0°C (32°F)

Boiling point, initial boiling point, and boiling range

Nuclease-Free Water 100°C (212°F) End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM 100°C (212°F) Hyb Blocker 100°C (212°F) Hyb Buffer Not available. Not available. Hyb Enhancer Soft Conversion Reagent A 177.7°C (351.9°F) 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 100°C (212°F) Hyb Wash Buffer 2 100°C (212°F) Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer 100°C (212°F) Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24 100°C (212°F) Index Primer Mix for ILM 25-32 100°C (212°F) Nuclease-Free Water Not available.

Flash point

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

Soft Conversion Reagent A Closed cup: 73°C (163.4°F)

2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Soft Conversion Reagent B
Not available.
Not available.
Not available.

Soft Conversion Binding Beads Closed cup: 37.8 to 61°C (100 to 141.8°F)

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

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

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	Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
End Prep Enzyme						
Glycerol	-	-	-	177	350.6	-
Ligation Enzyme						
Glycerol	-	-	-	177	350.6	-
Hyb Enhancer						
Formamide	150	302	-	152	305.6	DIN EN ISO 2592

Evaporation rate

: Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. **Ligation Buffer** Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24 Not available. Index Primer Mix for ILM 25-32 Not available.

Flammability

Nuclease-Free Water Not applicable. **End Prep Buffer** Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Not applicable. Ligation Enzyme Adapter for ILM Not applicable. Not applicable. Hyb Blocker Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Reagent A Not applicable. 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable.

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Library Binding Beads

Section 9. Physical and chemical properties and safety characteristics

Not applicable.

Lower and upper explosion limit/flammability limit

Capture Beads Not applicable. Index Primer Mix for ILM 17-24 Not applicable. Index Primer Mix for ILM 25-32 Not applicable. Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. **Ligation Buffer** Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hvb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24 Not available. Index Primer Mix for ILM 25-32 Not available.

Vapor pressure

: Nuclease-Free Water 2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C (122°F)]

	Vapor Pressure at 20°C		Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
End Prep Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
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	-

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and Chemical	prope	Titles	and Said	ty Cili	aracte	Histics
Hyb Blocker	17.5	2.3		92.258	12.3	
water	17.5	2.3	_	92.230	12.3	-
Hyb Buffer						
water	17.5	2.3	-	92.258	12.3	-
tetramethylammonium chloride	0.000000001	0.00000000013	EU A.4	-	-	-
Hyb Enhancer						
Formamide	0.045	0.006	-	-	-	-
Soft Conversion Reagent A						
tetrahydro- 2-furylmethanol	1.4	0.19	-	-	-	-
2X Methyl Amplification Mastermix						
water	17.5	2.3	-	92.258	12.3	-
Library Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
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	-
Soft Conversion Reagent B						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Binding Beads						
Ethanol	42.94865	5.7	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-

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	•					
5X Soft Conversion Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Elution Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Repair Solution						
water	17.5	2.3	-	92.258	12.3	-
Library Binding Beads						
water	17.5	2.3	-	92.258	12.3	-
Capture Beads						
water	17.5	2.3	-	92.258	12.3	-
Index Primer Mix for ILM 17-24						
water	17.5	2.3	-	92.258	12.3	-
Index Primer Mix for ILM 25-32						
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density

		ì		
Nuclease-Free Water	•		0.62	[Air = 1]
End Prep Buffer			Not a	vailable.
End Prep Enzyme			Not a	vailable.
Ligation Buffer			Not a	vailable.
Ligation Enzyme			Not a	vailable.
Adapter for ILM			Not a	vailable.
Hyb Blocker			Not a	vailable.
Hyb Buffer			Not a	vailable.
Hyb Enhancer			Not a	vailable.
Soft Conversion Read	gent A		Not a	vailable.
2X Methyl Amplification	on Masterr	nix	Not a	vailable.
Library Wash Buffer			Not a	vailable.
Hyb Wash Buffer 1			Not a	vailable.
Hyb Wash Buffer 2			Not a	vailable.
Soft Conversion Read	•			vailable.
Soft Conversion Bindi	ing Beads		Not a	vailable.
5X Soft Conversion V	lash Buffe	r	Not a	vailable.
Soft Conversion Elution	on Buffer		Not a	vailable.
Soft Conversion Repa	air Solution	1	Not a	vailable.
Library Binding Beads	3		Not a	vailable.

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

Relative density

Nuclease-Free Water End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24 Not available. Index Primer Mix for ILM 25-32 Not available.

Solubility(ies)

Media	Result
Nuclease-Free Water	
water	Soluble
End Prep Buffer	
water_	Soluble
End Prep Enzyme	
water	Soluble
Ligation Buffer	0.1511
water	Soluble
Ligation Enzyme water	Soluble
Adapter for ILM	Soluble
water	Soluble
Hyb Blocker	Colubio
water	Soluble
Hyb Buffer	
water	Soluble
Hyb Enhancer	
water	Soluble
Soft Conversion Reagent A	
water	Soluble
2X Methyl Amplification Mastermix	Calubia
water Library Wash Buffer	Soluble
water	Soluble
Hyb Wash Buffer 1	Colubic
water	Soluble
Hyb Wash Buffer 2	
water	Soluble
Soft Conversion Reagent B	
water	Soluble
Soft Conversion Binding Beads	
	I and the second

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

Partition coefficient: noctanol/water

-1.38 : Nuclease-Free Water 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. Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Reagent A 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Beads Not applicable. 5X Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Capture Beads Not applicable. Index Primer Mix for ILM 17-24 Not applicable. Index Primer Mix for ILM 25-32 Not applicable. Nuclease-Free Water Not applicable. 2X Methyl Amplification Mastermix 215°C (419°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
End Prep Enzyme			
Glycerol	370	698	-
Ligation Enzyme			
Glycerol	370	698	-
Hyb Enhancer			
Formamide	>500	>932	ASTM D 2155-66
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	282	539.6	-

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Soft Conversion Binding Beads			
Ethanol	455	851	DIN 51794

Decomposition temperature

Nuclease-Free Water Not available. **End Prep Buffer** Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24 Not available. Index Primer Mix for ILM 25-32 Not available.

Viscosity

Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hvb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24 Not available. Index Primer Mix for ILM 25-32 Not available.

Particle characteristics

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Median particle size

: Nuclease-Free Water Not applicable. **End Prep Buffer** Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Not applicable. Soft Conversion Reagent A 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Soft Conversion Reagent B Not applicable. Soft Conversion Binding Beads Not applicable. 5X Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Not applicable. Capture Beads Index Primer Mix for ILM 17-24 Not applicable. Index Primer Mix for ILM 25-32 Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity

for this product or its ingredients.

End Prep Buffer No specific test data related to reactivity available

for this product or its ingredients.

End Prep Enzyme No specific test data related to reactivity available

for this product or its ingredients.

Ligation Buffer No specific test data related to reactivity available

for this product or its ingredients.

Ligation Enzyme No specific test data related to reactivity available

for this product or its ingredients.

Adapter for ILM No specific test data related to reactivity available

for this product or its ingredients.

Hyb Blocker No specific test data related to reactivity available

for this product or its ingredients.

Hyb Buffer No specific test data related to reactivity available

for this product or its ingredients.

Hyb Enhancer No specific test data related to reactivity available

for this product or its ingredients.

Soft Conversion Reagent A No specific test data related to reactivity available

for this product or its ingredients.

2X Methyl Amplification Mastermix No specific test data related to reactivity available

for this product or its ingredients.

Library Wash Buffer No specific test data related to reactivity available

for this product or its ingredients.

Hyb Wash Buffer 1 No specific test data related to reactivity available

for this product or its ingredients.

Hyb Wash Buffer 2 No specific test data related to reactivity available

for this product or its ingredients.

Soft Conversion Reagent B No specific test data related to reactivity available

for this product or its ingredients.

Soft Conversion Binding Beads No specific test data related to reactivity available

for this product or its ingredients.

5X Soft Conversion Wash Buffer
No specific test data related to reactivity available

for this product or its ingredients.

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for this product or its ingredients.

Soft Conversion Repair Solution No specific test data related to reactivity available

for this product or its ingredients.

Library Binding Beads No specific test data related to reactivity available

for this product or its ingredients.

Capture Beads No specific test data related to reactivity available

for this product or its ingredients.

Index Primer Mix for ILM 17-24 No specific test data related to reactivity available

for this product or its ingredients.

Index Primer Mix for ILM 25-32 No specific test data related to reactivity available

for this product or its ingredients.

10.2 Chemical stability

: Nuclease-Free Water The product is stable. 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. Hyb Buffer The product is stable. The product is stable. Hyb Enhancer Soft Conversion Reagent A The product is stable. 2X Methyl Amplification Mastermix The product is stable. Library Wash Buffer The product is stable. Hyb Wash Buffer 1 The product is stable. Hyb Wash Buffer 2 The product is stable. Soft Conversion Reagent B The product is stable. Soft Conversion Binding Beads The product is stable. 5X Soft Conversion Wash Buffer The product is stable. Soft Conversion Elution Buffer The product is stable. Soft Conversion Repair Solution The product is stable. Library Binding Beads The product is stable. Capture Beads The product is stable. Index Primer Mix for ILM 17-24 The product is stable.

Index Primer Mix for ILM 25-32

10.3 Possibility of hazardous reactions

: Nuclease-Free Water Under normal conditions of storage and use,

hazardous reactions will not occur.

The product is stable.

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.

Soft Conversion Reagent A Under normal conditions of storage and use,

hazardous reactions will not occur.

2X Methyl Amplification Mastermix Under normal conditions of storage and use,

hazardous reactions will not occur.

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Library Wash Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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

hazardous reactions will not occur.

Soft Conversion Reagent B Under normal conditions of storage and use,

hazardous reactions will not occur.

Soft Conversion Binding Beads Under normal conditions of storage and use,

hazardous reactions will not occur.

5X Soft Conversion Wash Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Soft Conversion Elution Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Soft Conversion Repair Solution Under normal conditions of storage and use,

hazardous reactions will not occur.

Library Binding Beads Under normal conditions of storage and use,

hazardous reactions will not occur.

Capture Beads Under normal conditions of storage and use,

hazardous reactions will not occur.

Index Primer Mix for ILM 17-24 Under normal conditions of storage and use,

hazardous reactions will not occur.

Index Primer Mix for ILM 25-32 Under normal conditions of storage and use,

hazardous reactions will not occur.

10.4 Conditions to avoid

Nuclease-Free Water No specific data. End Prep Buffer No specific data. 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. Hyb Buffer No specific data. No specific data. Hyb Enhancer

Soft Conversion Reagent A Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder,

drill, grind or expose containers to heat or sources

of ignition.

2X Methyl Amplification Mastermix No specific data.

Library Wash Buffer
Hyb Wash Buffer 1
No specific data.
Hyb Wash Buffer 2
No specific data.

flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources

of ignition.

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads

Capture Beads
Index Primer Mix for ILM 17-24
Index Primer Mix for ILM 25-32

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

No specific data.

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

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10.5 Incompatible materials: Nuclease-Free Water May react or be incompatible with oxidizing

materials.

End Prep Buffer May react or be incompatible with oxidizing

materials.

End Prep Enzyme May react or be incompatible with oxidizing

materials.

Ligation Buffer May react or be incompatible with oxidizing

materials.

Ligation Enzyme May react or be incompatible with oxidizing

materials.

Adapter for ILM May react or be incompatible with oxidizing

materials.

Hyb Blocker May react or be incompatible with oxidizing

materials.

Hyb Buffer May react or be incompatible with oxidizing

materials.

Hyb Enhancer May react or be incompatible with oxidizing

materials.

Soft Conversion Reagent A Reactive or incompatible with the following

materials:

oxidizing materials

2X Methyl Amplification Mastermix May react or be incompatible with oxidizing

materials.

Library Wash Buffer May react or be incompatible with oxidizing

materials.

Hyb Wash Buffer 1 May react or be incompatible with oxidizing

materials.

Hyb Wash Buffer 2 May react or be incompatible with oxidizing

materials.

Soft Conversion Reagent B May react or be incompatible with oxidizing

materials.

Soft Conversion Binding Beads Reactive or incompatible with the following

materials:

oxidizing materials

5X Soft Conversion Wash Buffer May react or be incompatible with oxidizing

materials.

Soft Conversion Elution Buffer Reactive or incompatible with the following

materials:

acids

Soft Conversion Repair Solution May react or be incompatible with oxidizing

materials.

Library Binding Beads May react or be incompatible with oxidizing

materials.

Capture Beads May react or be incompatible with oxidizing

materials.

Index Primer Mix for ILM 17-24 May react or be incompatible with oxidizing

materials.

Index Primer Mix for ILM 25-32 May react or be incompatible with oxidizing

materials.

10.6 Hazardous decomposition products

: Nuclease-Free Water Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

End Prep Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

End Prep Enzyme Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Ligation Buffer Under normal conditions of storage and use,

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hazardous decomposition products should not be

produced.

Ligation Enzyme Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Adapter for ILM Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Blocker Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Enhancer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Soft Conversion Reagent A Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

2X Methyl Amplification Mastermix Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Library Wash Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

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

hazardous decomposition products should not be

produced.

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

hazardous decomposition products should not be

produced.

Soft Conversion Reagent B Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Soft Conversion Binding Beads Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

5X Soft Conversion Wash Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Soft Conversion Elution Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

hazardous decomposition products should not be

produced

Library Binding Beads Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Capture Beads Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Index Primer Mix for ILM 17-24 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Index Primer Mix for ILM 25-32 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

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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	-
Chloride	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium	LD50 Oral	Rat	20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists	Rat - Male	>21 mg/l	4 hours
	LD50 Dermal	Rabbit	17 g/kg	-
	LD50 Oral	Rat	5570 mg/kg	-
Hyb Wash Buffer 1				
Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
Hyb Wash Buffer 2				
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
Soft Conversion Binding				
Beads				
Ethanol	LC50 Inhalation Vapor LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours
Guanidinium thiocyanate	LC50 Inhalation Dusts and mists	Rat - Female	3.181 mg/l	4 hours
,	LD50 Oral	Rat - Male,	593 mg/kg	-
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Female Rat	2800 mg/kg	
alpha[LD30 Olai	ixat	2000 mg/kg	-
(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				

Irritation/Corrosion

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Product/ingredient name	Result	Species	Score	Exposure	Observation
End Prep Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	_	mg 24 hours 500	
	Skiii - Willa IIIItanii	Tabbit	-	mg	
Ligation Enzyme	Free Mild imited	Dabbit		04 5 500	
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Hyb Buffer					
Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit	-	1 %	-
alpha[
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-					
prierryijornegarrydroxy-					
Soft Conversion Reagent A					
tetrahydro-2-furylmethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
Hyb Wash Buffer 1					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant Eyes - Moderate irritant	Rabbit Rabbit	-	10 mg 24 hours 100	_
	Lycs - Woderate IIIItalit	Tabbit		mg	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
	Skin - Mild irritant	Rabbit	_	mg 24 hours 50	
	Skiii - Willa IIIIlani	Nabbit	-	mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
	Skin - Moderate irritant	Dobbit		mg	
	Skin - Moderate imtant	Rabbit	-	24 hours 25 mg	-
				9	
Hyb Wash Buffer 2	E O in it and	D . I. I. '4		4.07	
Poly(oxy-1,2-ethanediyl), . alpha[Eyes - Severe irritant	Rabbit	-	1 %	-
(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
Soft Conversion Binding					
Beads					
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Eyes - Moderate irritant	Rabbit		mg 0.066666667	_
	Lyos - Moderate Illitarit	Tabbit	=	minutes 100	
				mg	
Poly(oxy-1,2-ethanediyl), .	Eyes - Moderate irritant Eyes - Severe irritant	Rabbit Rabbit	-	100 uL 1 %	- _
alpha[Lyds - Oevere IIIIdill	TADDIL	_	1 /0	-
(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					

Sensitization

Not available.

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Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Soft Conversion Binding Beads			
Ethanol	-	1	-

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available. Specific target organ toxicity (single exposure)

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
Hyb Wash Buffer 1 Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	• •	Route of exposure	Target organs
Hyb Enhancer Formamide	Category 2	oral	blood

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Nuclease-Free Water Not available.

Routes of entry anticipated: Oral, Dermal, End Prep Buffer

Inhalation, Eyes.

End Prep Enzyme Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Ligation Buffer Not available.

Ligation Enzyme Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Adapter for ILM Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Hyb Blocker Not available.

Hyb Buffer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Hyb Enhancer

Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Soft Conversion Reagent A

Inhalation, Eyes.

2X Methyl Amplification Mastermix

Not available. Library Wash Buffer Not available.

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Hvb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available.

Soft Conversion Reagent B Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Soft Conversion Binding Beads

> Inhalation, Eyes. Not available.

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Routes of entry anticipated: Oral, Dermal,

> Inhalation, Eyes. Not available.

Soft Conversion Repair Solution Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 17-24

Not available. Not available.

Potential acute health effects

Eve contact

Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme

Adapter for ILM Hyb Blocker Hvb Buffer Hvb Enhancer

Soft Conversion Reagent A 2X Methyl Amplification Mastermix

Index Primer Mix for ILM 25-32

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2

Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads

Capture Beads

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

Nuclease-Free Water End Prep Buffer

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

Hyb Buffer

Hvb Enhancer

Soft Conversion Reagent A 2X Methyl Amplification Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2

Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution

Library Binding Beads

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

Causes eye irritation.

No known significant effects or critical hazards.

Causes eye irritation.

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.

Causes serious eye irritation.

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.

Causes serious eye irritation. Causes serious eye damage.

No known significant effects or critical hazards.

Causes serious eye damage.

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

Causes damage to organs following a single

exposure if inhaled.

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

Corrosive to the respiratory system.

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.

Inhalation

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Skin contact

Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

Nuclease-Free Water
End Prep Buffer
End Prep Enzyme
Ligation Buffer
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Hyb Buffer

Hyb Enhancer
Soft Conversion Reagent A
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Soft Conversion Reagent B
Soft Conversion Binding Beads
5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 17-24
Index Primer Mix for ILM 25-32

Ingestion

Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer
Soft Conversion Reagent A
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Soft Conversion Reagent B
Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32 No known significant effects or critical hazards. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.

No known significant effects or critical hazards. Causes severe burns.

No known significant effects or critical hazards. Causes severe burns.

No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. No known significant effects or critical hazards. No known significant effects or critical hazards.

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. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. May cause burns to mouth, throat and stomach. Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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Eye contact

: Nuclease-Free Water No specific data. **End Prep Buffer** No specific data.

End Prep Enzyme Adverse symptoms may include the following:

> irritation watering redness

Ligation Buffer No specific data.

Ligation Enzyme Adverse symptoms may include the following:

> irritation watering redness

Adapter for ILM No specific data. Hyb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer No specific data.

Soft Conversion Reagent A Adverse symptoms may include the following:

> pain or irritation watering

redness

2X Methyl Amplification Mastermix No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data.

Soft Conversion Reagent B Adverse symptoms may include the following:

> pain or irritation watering

redness

Soft Conversion Binding Beads Adverse symptoms may include the following:

> pain watering redness

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

No specific data.

pain watering redness

Soft Conversion Repair Solution No specific data. No specific data.

Library Binding Beads Capture Beads

Index Primer Mix for ILM 17-24

No specific data. Index Primer Mix for ILM 25-32 No specific data. Nuclease-Free Water No specific data. **End Prep Buffer** No specific data.

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

Hyb Enhancer Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths

Inhalation

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skeletal malformations 2X Methyl Amplification Mastermix No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Soft Conversion Reagent B No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

respiratory tract irritation

No specific data.

No specific data. No specific data.

coughing 5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer No specific data. Soft Conversion Repair Solution No specific data. No specific data.

Library Binding Beads Capture Beads

Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

Nuclease-Free Water **End Prep Buffer** End Prep Enzyme

Ligation Enzyme Adapter for ILM Hvb Blocker Hyb Buffer

No specific data. No specific data. No specific data. Ligation Buffer No specific data. No specific data. No specific data. No specific data.

Adverse symptoms may include the following:

irritation redness

Adverse symptoms may include the following: Hyb Enhancer

> reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

2X Methyl Amplification Mastermix No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Soft Conversion Reagent B No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

5X Soft Conversion Wash Buffer No specific data. Soft Conversion Elution Buffer

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur Soft Conversion Repair Solution No specific data.

Library Binding Beads No specific data. Capture Beads No specific data.

Index Primer Mix for ILM 17-24 No specific data. Index Primer Mix for ILM 25-32 No specific data.

Skin contact

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Ingestion

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

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
No specific data.
No specific data.
Hyb Wash Buffer 2
No specific data.
Soft Conversion Reagent B
No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

stomach pains

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

stomach pains

Soft Conversion Repair Solution No specific data.

Library Binding Beads
Capture Beads
Index Primer Mix for ILM 17-24
Index Primer Mix for ILM 25-32
No specific data.
No specific data.
No specific data.

Delayed and immediate effects and also 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

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

End Prep Buffer No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Buffer Hyb Enhancer May cause damage to organs through prolonged or

repeated exposure.

No known significant effects or critical hazards.

Soft Conversion Reagent A 2X Methyl Amplification Mastermix

2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
No known significant effects or critical hazards.

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

Carcinogenicity

 Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer

Soft Conversion Reagent A
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Soft Conversion Reagent B
Soft Conversion Binding Beads
5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 17-24
Index Primer Mix for ILM 25-32

Mutagenicity

Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hvb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

No known significant effects or critical hazards. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

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Reproductive toxicity

: Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hvb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Index Primer Mix for ILM 17-24 Index Primer Mix for ILM 25-32

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

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
End Prep Buffer End Prep Buffer Magnesium chloride	229323.3 2800	204752.9 2500	N/A N/A	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-	450.2 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
Library Wash Buffer Library Wash Buffer	37635.4	N/A	N/A	N/A	N/A
Hyb Wash Buffer 1 Hyb Wash Buffer 1 Sodium dodecyl sulphate	171428.6 1288	N/A N/A	N/A N/A	N/A N/A	N/A 1.5
Hyb Wash Buffer 2					

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Poly(oxy-1,2-ethanediyl), .alpha[500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					
Soft Conversion Binding Beads					
Soft Conversion Binding Beads	2299.0	5782.2	N/A	N/A	16.7
Ethanol	7000	N/A	N/A	124.7	N/A
Guanidinium thiocyanate	593	1100	N/A	N/A	3.181
Poly(oxy-1,2-ethanediyl), .alpha[500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					
Library Binding Beads					
Library Binding Beads	17855.8	N/A	N/A	N/A	N/A

Other information

: End Prep Buffer

Hyb Enhancer

Adverse symptoms may include the following: May

cause skin sensitization.

Adapter for ILM Adverse symptoms may include the following: May

cause skin sensitization.

Adverse symptoms may include the following: May

cause eye irritation. May cause skin irritation.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
End Prep Buffer			
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180000 μg/l Fresh water	Crustaceans - Eudiaptomus padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - Daphnia hyalina - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
End Prep Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ligation Enzyme			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Hyb Buffer			
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
prierryijomeganydroxy-	Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Hyb Enhancer	A 1 5050 . 500 // 5 /	Alm	70 1
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours

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	Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 6569 mg/l Fresh water	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	Acute EC50 >98.9 mg/l	Algae	72 hours
	Acute EC50 >91.7 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >101 mg/l	Fish	96 hours
Hyb Wash Buffer 1			
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
-	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina -	48 hours
		Adult	
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> -	48 hours
	1 3	Neonate	
	Acute LC50 590 μg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida	21 days
	g,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ramosa - Neonate	, .
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
	I water	Neonate	2. days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - Gambusia holbrooki	28 days
	I water		20 days
Hyb Wash Buffer 2			
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
alpha[Trodie 2000 210 µg/11 Tooli Water	rugus Coronada am op.	oo noaro
(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			
Priority J. J. Hoga: Hydroxy	Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui	48 hours
	, teate 2000 10000 µg/1 mainte mater	- Adult	10 Hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	/ toute 2000 / 200 µg// / Took water	l leir emeerrynende mywee	oo noare
Soft Conversion Binding			
Beads			
Ethanol	Acute EC50 3306 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
Ethanol	Acute EC50 1074 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 11000000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 4.995 mg/r Warine water	Daphnia - Daphnia magna -	21 days
	Chionic NOEC 100 ui/L Fresh water	Neonate	Ziuays
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 ug/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
alpha[Acute EC50 210 μg/l Fresh water	Aigae - Seieliasilulli sp.	30 Hours
			1
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
prieriyijornegariyuroxy- 	Acuto I C50 10800 ug/l Marina water	Crustacoans Pandalus mantagui	19 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui	48 hours
	Aguta I CEO 2 E19 mg/l Fresh water	- Adult	10 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

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Product/ingredient name	Test	Result		Dose		Inoculum
End Prep Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 d	ays	-		-
Ligation Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-		-
Hyb Enhancer Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days -		-		-
Soft Conversion Reagent A tetrahydro-2-furylmethanol	-	92 % - Readily - 28 days		-		-
Hyb Wash Buffer 1 Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	95 % - Readily - 28 days		20 mg/l		-
Soft Conversion Binding Beads Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inhe	rent - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Nuclease-Free Water water	-		-		Readily	
Hyb Buffer tetramethylammonium chloride	-		-		Readily	
Hyb Enhancer Formamide	-		-		Readily	
Soft Conversion Reagent A tetrahydro-2-furylmethanol	-		-		Readily	
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-		-		Readily	
Soft Conversion Binding Beads Ethanol	-		-		Readily	

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12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	Low
End Prep Enzyme Glycerol	-1.76	-	Low
Ligation Enzyme Glycerol	-1.76	-	Low
Hyb Buffer tetramethylammonium chloride Poly(oxy-1,2-ethanediyl), .	<-1.6 2.7	- 78.67	Low
alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
Hyb Enhancer Formamide	-0.82	-	Low
Soft Conversion Reagent A tetrahydro-2-furylmethanol	0.722	-	Low
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-2.03	-	Low
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
Soft Conversion Binding Beads Ethanol Guanidinium thiocyanate Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	-0.35 <-1.7 2.7	0.5 - 78.67	Low Low Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

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

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Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods

The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3316	UN3316	UN3316	UN3316	UN3316
UN proper shipping name	Chemical kit	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9	9	9	9	9
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.

Additional information

Remarks: Excepted Quantity

DOT Classification : <u>Limited quantity</u> Yes.

<u>Packaging instruction</u> Exceptions: 161. Non-bulk: 161. Bulk: None. <u>Quantity limitation</u> Passenger aircraft/rail: 10 kg. Cargo aircraft: 10 kg.

Special provisions 15

TDG Classification: Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.43-2.45 (Class 9).

Passenger Carrying Road or Rail Index 10

Special provisions 65, 141

Mexico Classification : Special provisions 251, 340

IMDG : <u>Emergency schedules</u> F-A, _S-P_

Special provisions 251, 340

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Section 14. Transport information

IATA

: Quantity limitation Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

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.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations

: TSCA 8(a) PAIR: Formamide; Poly(oxy-1,2-ethanediyl), .alpha.-[

(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-; Polyoxyethylene octyl phenyl ether

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: ammonium hydrogensulphite; Sodium hydroxide; Edetic

acid

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** : Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals

(Precursor Chemicals)

: Not listed

DEA List II Chemicals

(Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Soft Conversion Binding Beads Sodium azide	<0.1	Yes.	500	-	1000	-
Capture Beads Sodium azide	<0.1	Yes.	500	-	1000	-

SARA 304 RQ : 87121212.1 lbs / 39553030.3 kg

SARA 311/312

 Nuclease-Free Water Not applicable. Classification **End Prep Buffer** Not applicable.

End Prep Enzyme EYE IRRITATION - Category 2B Ligation Buffer Not applicable. Ligation Enzyme EYE IRRITATION - Category 2B

Adapter for ILM Not applicable. Hyb Blocker Not applicable.

Hyb Buffer ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -

Category 1

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Section 15. Regulatory information

Hyb Enhancer CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

Soft Conversion Reagent A FLAMMABLE LIQUIDS - Category 4

EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B

2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable.

Hyb Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 2 EYE IRRITATION - Category 2A Soft Conversion Reagent B

Soft Conversion Binding Beads FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to respiratory tract

5X Soft Conversion Wash Buffer Not applicable.

Soft Conversion Elution Buffer SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable.

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

Composition/information on ingredients

Name	%	Classification	
End Prep Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B	
Ligation Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B	
Hyb Buffer tetramethylammonium chloride	≥10 - <15	ACUTE TOXICITY (oral) - Category 2	
Dextran sulfate sodium	≤3	ACUTE TOXICITY (dermal) - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	
Hyb Enhancer Formamide	≥90	CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	
Soft Conversion Reagent A tetrahydro-2-furylmethanol	≥90	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B	
Soft Conversion Reagent B ammonium hydrogensulphite	≥50 - ≤75	EYE IRRITATION - Category 2A	
Soft Conversion Binding Beads			
Ethanol	≥50 - ≤75	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A	
Guanidinium thiocyanate	≥10 - ≤21	HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract	
Poly(oxy-1,2-ethanediyl), .alpha	≤6.5	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2	

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Section 15. Regulatory information

[(1,1,3,3-tetramethylbutyl)phenyl]	SERIOUS EYE DAMAGE - Category 1
omegahydroxy-	

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Soft Conversion Reagent B ammonium hydrogensulphite	10192-30-0	≥50 - ≤75
Supplier notification	Hyb Enhancer Formamide	75-12-7	≥90
	Soft Conversion Reagent B ammonium hydrogensulphite	10192-30-0	≥50 - ≤75

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: GLYCERINE MIST; TETRAHYDROFURFURYL

ALCOHOL; FORMAMIDE; AMMONIUM BISULFITE; ETHYL ALCOHOL

New York : The following components are listed: Ammonium bisulfite

New Jersey : The following components are listed: GLYCERIN; FORMAMIDE; AMMONIUM

BISULFITE; ETHYL ALCOHOL

Pennsylvania: The following components are listed: 1,2,3-PROPANETRIOL; 2-FURANMETHANOL,

TETRAHYDRO-; FORMAMIDE; SULFUROUS ACID, MONOAMMONIUM SALT;

ETHANOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Thailand : Not determined.

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Section 15. Regulatory information

Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
End Prep Buffer AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method
End Prep Enzyme EYE IRRITATION - Category 2B	Calculation method
Ligation Enzyme EYE IRRITATION - Category 2B	Calculation method
Hyb Buffer ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method Calculation method Calculation method
Hyb Enhancer CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method Calculation method Calculation method
Soft Conversion Reagent A FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B	On basis of test data Calculation method Calculation method
Soft Conversion Reagent B EYE IRRITATION - Category 2A	Calculation method
Soft Conversion Binding Beads FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2	On basis of test data Calculation method Calculation method Calculation method Calculation method
Soft Conversion Elution Buffer SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1	On basis of test data On basis of test data

History

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Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

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