SAFETY DATA SHEET



Avida Methyl Reagent Kit with 1-16 Index Primer Pairs for ILM, 16 Reactions, Part Number G9419A

Section 1. Identification

1.1 Product identifier

Product name

: Avida Methyl Reagent Kit with 1-16 Index Primer Pairs for ILM, 16 Reactions, Part

Number G9419A

Part no. (chemical kit)

Part no.

: G9419A

| : | Avida Methyl Reagent Box 2, 16 Reactions/ | 5282-0147/5282-0149 |
|---|---|---------------------|
| | Avida Methyl and Duo Reagent Box 3, 16 | |

Reactions

5271-0107 Nuclease-Free Water 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 1-16 for ILM 5280-0052 Index Primer Mix for ILM 1-8 5274-0075 Index Primer Mix for ILM 9-16 5274-0076

Validation date : 4/11/2024

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 0.44 ml (16 reactions) Library Wash Buffer 6.336 ml (16 reactions) Hyb Wash Buffer 1 5.28 ml (16 reactions)

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Hyb Wash Buffer 2 2.64 ml (16 reactions)

Soft Conversion Reagent B 2 x 0.75 ml

Soft Conversion Binding Beads
5X Soft Conversion Wash Buffer
2 ml (16 reactions)
5 ml (16 reactions)
6 ml (16 reactions)
6 ml (16 reactions)
7 ml (16 reactions)
7 ml (16 reactions)
7 ml (16 reactions)
7 ml (16 reactions)

Capture Beads 0.141 ml (16 reactions)

Index Primer Mix for ILM 1-8 8 x 0.005 ml Index Primer Mix for ILM 9-16 8 x 0.005 ml

Uses advised against: Not for use in diagnostic procedures.

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

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

This material is considered hazardous by the OSHA

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 1-8

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

9-16

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



Soft Conversion Reagent A

Soft Conversion Reagent B

Soft Conversion Binding Beads

Soft Conversion Elution Buffer

: Nuclease-Free Water No signal word. **End Prep Buffer** No signal word. End Prep Enzyme Warning

Adapter for ILM Hyb Blocker

Hyb Enhancer Danger Soft Conversion Reagent A Danger

2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2

Library Binding Beads

Index Primer Mix for ILM 1-8



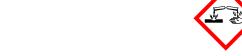












Signal word

No signal word. Ligation Buffer Ligation Enzyme Warning No signal word. No signal word. Hyb Buffer Danger No signal word. No signal word. No signal word. No signal word. Soft Conversion Reagent B Warning Soft Conversion Binding Beads Danger 5X Soft Conversion Wash Buffer No signal word. Soft Conversion Elution Buffer Danger Soft Conversion Repair Solution No signal word. No signal word. Capture Beads No signal word. No signal word. Index Primer Mix for ILM 9-16 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.

End Prep Enzyme H320 - Causes eye irritation.

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.

Hyb Enhancer H351 - Suspected of causing cancer.

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

Soft Conversion Reagent A H227 - Combustible liquid.

2X Methyl Amplification Mastermix

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

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. Soft Conversion Binding Beads 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. 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
Ligation Buffer
Not applicable.
Ligation Enzyme
Not applicable.
Adapter for ILM
Not applicable.
Hyb Blocker
Not applicable.

Hyb Buffer P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P260 - Do not breathe 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 eye or face protection. P260 - Do not breathe vapor.

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

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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Response

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 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.

and eye or face protection.

Soft Conversion Repair Solution

Library Binding Beads
Capture Beads

Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
Not applicable.
Not applicable.

: Nuclease-Free Water Not applicable. 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.

Not applicable.

2X Methyl Amplification Mastermix

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

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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

Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16 Not applicable. Not applicable. Not applicable.

Not applicable. Not applicable.

Not applicable.

Not applicable. End Prep Buffer End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Not applicable. Adapter for ILM Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer 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 1-8 | Not applicable. |
| Index Primer Mix for ILM 9-16 | Not applicable. |
| | |

Disposal

: Nuclease-Free Water Not applicable.

End Prep Buffer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

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

Hyb Buffer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Hyb Enhancer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

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

accordance with all local, regional, national and

international regulations.

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 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 1-8
Index Primer Mix for ILM 9-16

Not applicable.
Not applicable.
Not applicable.
None known.

Not applicable.

Not applicable.

Supplemental label elements

: Nuclease-Free Water 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 None known. Soft Conversion Elution Buffer None known. Soft Conversion Repair Solution None known. Library Binding Beads None known. Capture Beads None known. Index Primer Mix for ILM 1-8 None known. Index Primer Mix for ILM 9-16 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.

None known. Soft Conversion Binding Beads Causes respiratory tract burns. Causes digestive

tract burns.

5X Soft Conversion Wash Buffer None known. Soft Conversion Elution Buffer None known. Soft Conversion Repair Solution None known. Library Binding Beads None known. Capture Beads None known. Index Primer Mix for ILM 1-8 None known. Index Primer Mix for ILM 9-16 None known.

Section 3. Composition/information on ingredients

Soft Conversion Reagent B

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 1-8 Mixture Index Primer Mix for ILM 9-16 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 | | |
| | ≥50 - ≤75 | 10192-30-0 |
| ammonium hydrogensulphite | 200-2/0 | 10192-30-0 |
| Soft Conversion Binding Beads | | |
| Ethanol | ≥50 - ≤75 | 64-17-5 |
| | | |

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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.

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.

Adapter for ILM Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Hyb Blocker Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Hyb Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. 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 1-8 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 9-16 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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Ligation Buffer

Hyb Blocker

Date of issue:

Section 4. First aid measures

: Nuclease-Free Water Inhalation

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 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

position comfortable for breathing. If not

hours.

Ligation Enzyme Remove victim to fresh air and keep at rest in a

> 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 Adapter for ILM 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 Hyb Buffer

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

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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.

Hyb Wash Buffer 1

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

Hyb Wash Buffer 2

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

attention if symptoms occur.

Soft Conversion Reagent B

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

arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

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

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hours.

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.

Capture 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.

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.

End Prep Buffer 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. Wash

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

Skin contact

End Prep Enzyme

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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. Capture Beads Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Index Primer Mix for ILM 1-8 Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Index Primer Mix for ILM 9-16 Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. 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. 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.

Ingestion : Nuclease-Free Water

End Prep Buffer

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

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.

kept low so that vomit does not enter the lungs.

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

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

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 1-8 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 9-16 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 1-8 Index Primer Mix for ILM 9-16

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 1-8 Index Primer Mix for ILM 9-16

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 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. 2X Methyl Amplification Mastermix 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 1-8

Index Primer Mix for ILM 9-16

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

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 1-8 Index Primer Mix for ILM 9-16 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

: 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 1-8
Index Primer Mix for ILM 9-16
No specific data.
No specific data.
No specific data.
No specific data.

Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
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 1-8 No specific data. Index Primer Mix for ILM 9-16 No specific data.

Inhalation

index Filmer with for IEW 9-10 No specific data.

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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

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 ution No specific data.

Soft Conversion Repair Solution
Library Binding Beads
No specific data.
No specific data.

Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
No specific data.
No specific data.

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 Enhancer Adverse symptoms may include the following:

No specific data.

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.

Hyb Buffer

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.

Adverse symptoms may include the following: Soft Conversion Elution Buffer

stomach pains

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16 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.

In case of inhalation of decomposition products in a **Ligation Buffer**

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

surveillance for 48 hours.

Treat symptomatically. Contact poison treatment Ligation Enzyme

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.

Treat symptomatically. Contact poison treatment Hyb Blocker

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.

Treat symptomatically. Contact poison treatment 2X Methyl Amplification Mastermix

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.

Treat symptomatically. Contact poison treatment Hyb Wash Buffer 1

specialist immediately if large quantities have been

ingested or inhaled.

Treat symptomatically. Contact poison treatment Hyb Wash Buffer 2

specialist immediately if large quantities have been

ingested or inhaled.

In case of inhalation of decomposition products in a Soft Conversion Reagent B

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 1-8 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Index Primer Mix for ILM 9-16 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. Hyb Wash Buffer 2 No specific treatment.

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.

Index Primer Mix for ILM 1-8

End Prep Buffer

Capture Beads No specific treatment. No specific treatment. Index Primer Mix for ILM 9-16 No specific treatment.

Protection of first-aiders

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

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

or without suitable training.

End Prep Enzyme No action shall be taken involving any personal risk

> or without suitable training. 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 involving any personal risk

or without suitable training.

Index Primer Mix for ILM 1-8 No action shall be taken involving any personal risk

or without suitable training.

Index Primer Mix for ILM 9-16 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.

Use an extinguishing agent suitable for the **End Prep Enzyme**

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.

Use an extinguishing agent suitable for the Hyb Enhancer

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.

Use an extinguishing agent suitable for the Hyb Wash Buffer 1

surrounding fire.

Use an extinguishing agent suitable for the Hyb Wash Buffer 2

surrounding fire.

Use an extinguishing agent suitable for the Soft Conversion Reagent B

surrounding fire.

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

Use an extinguishing agent suitable for the 5X Soft Conversion Wash Buffer

surrounding fire.

Soft Conversion Elution Buffer Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Repair Solution Use an extinguishing agent suitable for the

surrounding fire.

Library Binding Beads Use an extinguishing agent suitable for the

surrounding fire.

Capture Beads Use an extinguishing agent suitable for the

surrounding fire.

Index Primer Mix for ILM 1-8 Use an extinguishing agent suitable for the

surrounding fire.

Index Primer Mix for ILM 9-16 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.
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 1-8
Index Primer Mix for ILM 9-16

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 1-8 In a fire or if heated, a pressure increase will occur

and the container may burst.

Index Primer Mix for ILM 9-16 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 1-8 No specific data.
Index Primer Mix for ILM 9-16 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.

End Prep Buffer Promptly isolate the scene by removing all persons

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

without suitable training.

End Prep Enzyme Promptly isolate the scene by removing all persons

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

without suitable training.

Ligation Buffer Promptly isolate the scene by removing all persons

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

without suitable training.

Ligation Enzyme Promptly isolate the scene by removing all persons

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

without suitable training.

Adapter for ILM Promptly isolate the scene by removing all persons

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

without suitable training.

Hyb Blocker Promptly isolate the scene by removing all persons

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

without suitable training.

Hyb Buffer Promptly isolate the scene by removing all persons

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

without suitable training.

Hyb Enhancer Promptly isolate the scene by removing all persons

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

without suitable training.

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.

2X Methyl Amplification Mastermix

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

without suitable training.

Library Wash Buffer Promptly isolate the scene by removing all persons

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

without suitable training.

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

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

without suitable training.

Hyb Wash Buffer 2 Promptly isolate the scene by removing all persons

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

without suitable training.

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.

Promptly isolate the scene by removing all persons Library Binding 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.

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 1-8 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 9-16 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.

End Prep Buffer Fire-fighters should wear appropriate protective

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

pressure mode.

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.

Ligation Enzyme Fire-fighters should wear appropriate protective

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

pressure mode.

Fire-fighters should wear appropriate protective Adapter for ILM

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

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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 1-8 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 9-16

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 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

personal protective equipment.

No action shall be taken involving any personal

ventilation is inadequate. Put on appropriate

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.

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. 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

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 1-8

Index Primer Mix for ILM 9-16

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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

6.2 Environmental

precautions

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

: 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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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).

Ligation 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).

Avoid dispersal of spilled material and runoff and Ligation Enzyme

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

caused environmental pollution (sewers,

waterways, soil or air).

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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).

Avoid dispersal of spilled material and runoff and Hyb Blocker

> 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 Hyb 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.

Avoid dispersal of spilled material and runoff and Hyb Enhancer

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 Soft Conversion Reagent A

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 2X Methyl Amplification Mastermix

> 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).

Avoid dispersal of spilled material and runoff and Hyb Wash Buffer 2

> 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 Soft Conversion Reagent B

> 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 Soft Conversion Binding Beads

> 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 1-8 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 9-16 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 Soft Conversion Binding Beads

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 1-8 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 9-16 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 Repair Solution

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7.1 Precautions for safe handling

Protective measures

: Nuclease-Free Water

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment (see 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.

End Prep Enzyme 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).

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

End Prep Buffer

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

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 1-8

Put on appropriate personal protective equipment

(see Section 8).

Index Primer Mix for ILM 9-16

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

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

before entering eating areas. See also Section 8

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

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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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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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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 1-8

Index Primer Mix for ILM 9-16

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 1-8

Index Primer Mix for ILM 9-16

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.

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 1-8 Index Primer Mix for ILM 9-16

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 1-8 Not available. Index Primer Mix for ILM 9-16 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).

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

CAL OSHA PEĽ (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 Liquid. 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 1-8 Liquid. Index Primer Mix for ILM 9-16 Liquid.

Color

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 1-8 Not available. Index Primer Mix for ILM 9-16 Not available. Nuclease-Free Water Odorless.

Odor

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. 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 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

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| Section 9. Physica | I and chemical propert | ies and safet |
|------------------------------|--|--|
| Odor threshold | : 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 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 1-8 Index Primer Mix for ILM 9-16 | Not available. |
| pH | : 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 1-8 Index Primer Mix for ILM 9-16 | 7 8 7.5 8 7.5 8 8 7.5 Not available. Not available. 8.6 Not available. 7.2 to 7.6 7.2 to 7.6 4.5 to 5.5 Not available. Not available. 13 8 Not available. 8 8 Not available. |
| Melting point/freezing point | : 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 | 0°C (32°F) Not available. Not available. Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) |

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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 1-8 0°C (32°F) Index Primer Mix for ILM 9-16 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 1-8 100°C (212°F) Index Primer Mix for ILM 9-16 100°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 1-8
Index Primer Mix for ILM 9-16

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 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

Flammability

Nuclease-Free Water Not applicable. **End Prep Buffer** Not applicable. Not applicable. End Prep Enzyme 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. Not applicable. Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16 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 1-8 Not available. Index Primer Mix for ILM 9-16 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)]

| | Vapo | Vapor Pressure at 20°C | | Vapor pressure at 5 | | |
|-----------------|----------|------------------------|--------|---------------------|---------|--------|
| 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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| _ | ina chemicai | prope | Titles | and Said | ty Cit | aracte | Houco |
|---|---|-------------|--------------|----------|--------|--------|-------|
| | Hyb Blocker | | | | | | |
| | water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| | Hyb Buffer | | | | | | |
| | water | | 2.3 | - | 92.258 | 12.3 | - |
| | tetramethylammonium chloride | 0.000000001 | 0.0000000013 | 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 1-8 | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Index Primer Mix for ILM 9-16 | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |

Relative vapor density

| | ì | | | |
|--------------|--|---|---|--|
| = | | 0.62 | [Air = 1] | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| gent A | | Not a | vailable. | |
| on Masterr | nix | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| | | Not a | vailable. | |
| ing Beads | | Not a | vailable. | |
| Vash Buffe | r | Not a | vailable. | |
| on Buffer | | Not a | vailable. | |
| air Solution | 1 | Not a | vailable. | |
| 3 | | Not a | vailable. | |
| | gent B ing Beads Vash Buffe on Buffer | gent A on Mastermix gent B ing Beads Vash Buffer on Buffer air Solution | Not a | Not available. |

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Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
Not available.
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 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

Solubility(ies)

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

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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 1-8 | |
| water | Soluble |
| Index Primer Mix for ILM 9-16 | |
| 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. Not applicable. Library Wash Buffer 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 1-8 Not applicable. Index Primer Mix for ILM 9-16 Not applicable. Not applicable.

Auto-ignition temperature

Nuclease-Free Water 2X Methyl Amplification Mastermix 215°C (419°F)

| 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 1-8 Not available. Index Primer Mix for ILM 9-16 Not available. Nuclease-Free Water

Viscosity

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 1-8 Not available. Index Primer Mix for ILM 9-16 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 1-8 Not applicable. Index Primer Mix for ILM 9-16 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 1-8

No specific test data related to reactivity available

for this product or its ingredients.

Index Primer Mix for ILM 9-16 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 1-8 The product is stable.

Index Primer Mix for ILM 9-16

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.

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.

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

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 1-8 Under normal conditions of storage and use,

hazardous reactions will not occur.

Index Primer Mix for ILM 9-16 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.

Hyb Enhancer

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

No specific data.

drill, grind or expose containers to heat or sources

of ignition.

No specific data. 2X Methyl Amplification Mastermix Library Wash Buffer No specific data.

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

Soft Conversion Binding Beads Avoid all possible sources of ignition (spark or

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

of ignition.

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

Capture Beads Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16 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 1-8 May react or be incompatible with oxidizing

materials.

Index Primer Mix for ILM 9-16 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 1-8 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Index Primer Mix for ILM 9-16 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 | 1.5-0.5 | 5 | 2000 # | |
| Magnesium chloride | LD50 Dermal | Rat - Male, Female | >2000 mg/kg | - |
| | LD50 Oral | Rat | 2800 mg/kg | - |
| End Prep Enzyme | | | | |
| Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Ligation Enzyme | | | | |
| Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Hyb Buffer | | | | |
| tetramethylammonium chloride | LD50 Dermal | Rabbit - Male, Female | 200 to 500 mg/kg | - |
| | LD50 Oral | Rat | 50 mg/kg | - |
| Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), . | LD50 Oral LD50 Oral | Rat Rat | 20600 mg/kg 2800 mg/kg | - |
| alpha[| ED30 Grai | Nat | 2000 Hig/kg | |
| (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy- | | | | |
| | | | | |
| Hyb Enhancer Formamide | LC50 Inhalation Dusts and mists | Rat - Male | >21 mg/l | 4 hours |
| Tomamao | 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), . alpha[| LD50 Oral | Rat | 2800 mg/kg | - |
| (1,1,3,3-tetramethylbutyl) | | | | |
| phenyl]omegahydroxy- | | | | |
| Soft Conversion Binding | | | | |
| Beads Ethanol | LC50 Inhalation Vapor | Rat | 124700 mg/m³ | 4 hours |
| Cuanidinium this syspets | LD50 Oral | Rat | 7 g/kg | - 4 h a : : : : : : : : : : : : : : : : : : |
| Guanidinium thiocyanate | LC50 Inhalation Dusts and mists LD50 Oral | Rat - Female Rat - Male, | 3.181 mg/l 593 mg/kg | 4 hours |
| Poly(oxy-1,2-ethanediyl), . | LD50 Oral | Female Rat | 2800 mg/kg | _ |
| alpha[| LDJU Olai | INGL | 2000 mg/kg | - |
| (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy- | | | | |
| prierryijorriegarryuroxy- | | | | |

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.

Soft Conversion Repair Solution Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16

Not available.

Not available.

Not available. 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

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 1-8 Index Primer Mix for ILM 9-16

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 1-8
Index Primer Mix for ILM 9-16

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 1-8
Index Primer Mix for ILM 9-16

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 1-8 Index Primer Mix for ILM 9-16 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. 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:

pain watering redness

Soft Conversion Repair Solution No specific data.

Library Binding Beads Capture Beads

Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16

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

No specific data.

Inhalation : Nuclease

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

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Adapter for ILM

Hvb Blocker

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

Soft Conversion Binding Beads Adverse symptoms may include the following:

respiratory tract irritation

coughing
5X Soft Conversion Wash Buffer No specif

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.

Library Binding Beads
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
No specific data.
No specific data.
No specific data.

Index Primer Mix for ILM 9-16
Nuclease-Free Water
End Prep Buffer
End Prep Enzyme
Ligation Buffer
Ligation Enzyme
No specific data.

Hyb Buffer Adverse symptoms may include the following:

No specific data.

No specific data.

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

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
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
No specific data.
No specific data.
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

Adverse symptoms may include the following: Soft Conversion Reagent A

> 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

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 No specific data. Capture Beads No specific data. Index Primer Mix for ILM 1-8 No specific data. Index Primer Mix for ILM 9-16 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

: Not available. Potential immediate

effects

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

No known significant effects or critical hazards. Library Wash Buffer No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 No known significant effects or critical hazards.

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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 1-8 Index Primer Mix for ILM 9-16 Nuclease-Free Water

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 1-8
Index Primer Mix for ILM 9-16

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 1-8

Index Primer Mix for ILM 9-16

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.

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 1-8 Index Primer Mix for ILM 9-16

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

Adapter for ILM

Hyb Enhancer

Adverse symptoms may include the following: May

cause skin sensitization.

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 |
| | risate 2000 To Fingh | | 00110410 |
| Hyb Wash Buffer 1 | | | |
| Sodium dodecyl sulphate | Acute EC50 1200 µg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| Codium dodeoyi saipnate | Acute LC50 900 µg/l Marine water | Crustaceans - Artemia salina - | 48 hours |
| | Acute 2000 900 µg/1 Marine Water | Adult | 40 110013 |
| | Agusta I CEO 1400 ug/l Freeb weter | 1 | 48 hours |
| | Acute LC50 1400 µg/l Fresh water | Daphnia - Daphnia pulex - | 48 nours |
| | A 1 OFO FOO // F 1 1 | Neonate | 00.1 |
| | 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 ramosa - Neonate | 21 days |
| | Chronic NOEC 3.2 mg/l Fresh water | | 21 days |
| | Chionic NOEC 3.2 mg/i Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | Ziuays |
| | Chronic NOEC 0.0 mg/l Eroch water | | 00 days |
| | Chronic NOEC 0.8 mg/l Fresh water | Fish - Gambusia holbrooki | 28 days |
| Hyb Wash Buffer 2 | | | |
| | A custo FCEO 240 um/l Freeb victor | Algree Colomosty, m. en | 00 5 5 |
| Poly(oxy-1,2-ethanediyl), . | Acute EC50 210 μg/l Fresh water | Algae - Selenastrum sp. | 96 hours |
| alpha[| | | |
| (1,1,3,3-tetramethylbutyl) | | | |
| phenyl]omegahydroxy- | A 1 050 40000 // Maria 1 | One day and the second and | 40 1 |
| | Acute LC50 10800 µg/l Marine water | Crustaceans - Pandalus montagui | 48 hours |
| | | - Adult | 40. |
| | 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 |
| | | | |
| Soft Conversion Binding | | | |
| Beads | | | |
| Ethanol | Acute EC50 3306 mg/l Marine water | Algae - <i>Ulva pertusa</i> | 96 hours |
| | Acute EC50 1074 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute EC50 2 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 11000000 µg/l Marine water | Fish - Alburnus alburnus | 96 hours |
| | Chronic NOEC 4.995 mg/l Marine water | Algae - <i>Ulva pertusa</i> | 96 hours |
| | Chronic NOEC 100 ul/L Fresh water | Daphnia - <i>Daphnia magna</i> - | 21 days |
| | | Neonate | , |
| Poly(oxy-1,2-ethanediyl), . | Acute EC50 210 µg/l Fresh water | Algae - Selenastrum sp. | 96 hours |
| alpha[| | 3 | |
| (1,1,3,3-tetramethylbutyl) | | | |
| phenyl]omegahydroxy- | | | |
| p | Acute LC50 10800 μg/l Marine water | Crustaceans - Pandalus montagui | 48 hours |
| | , toute 2000 10000 µg/i Walline Water | - 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 |
| | 7 todio 2000 7200 µg/11 lesii watei | 1 Ion - Oncomynonas mykiss | oo nours |

12.2 Persistence and degradability

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Ethanol

| 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 d | ays | - | - | |
| Hyb Enhancer Formamide | OECD 301A Ready Biodegradability - DOC Die-Away Test | 99 % - Rea | dily - 28 days | - | - | |
| Soft Conversion Reagent A tetrahydro-2-furylmethanol | - | 92 % - Rea | dily - 28 days | - | - | |
| Hyb Wash Buffer 1 Sodium dodecyl sulphate | OECD 301B Ready Biodegradability - CO ₂ Evolution Test | 95 % - Rea | dily - 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 | | Biodegra | dability |
| 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 | | | | | | |

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Readily

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|-----------------------|-------------------|-------------------|
| Nuclease-Free Water water | -1.38 | - | Low |
| End Prep Enzyme | | | 2011 |
| Glycerol | -1.76 | - | Low |
| Ligation Enzyme Glycerol | -1.76 | - | Low |
| Hyb Buffer tetramethylammonium chloride | <-1.6 | - | Low |
| Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) | 2.7 | 78.67 | Low |
| 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) | -0.35 <-1.7 2.7 | 0.5 - 78.67 | Low Low Low |
| phenyl]omegahydroxy- | | | |

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 FLAMMABLÉ LIQUIDS - Category 4

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

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

Not applicable. Hyb Wash Buffer 1 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 digestive tract HNOC - Corrosive to respiratory tract

Not applicable. 5X Soft Conversion Wash Buffer

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

Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Not applicable. Capture Beads Index Primer Mix for ILM 1-8 Not applicable. Index Primer Mix for ILM 9-16 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 Dextran sulfate sodium | ≥10 - <15 ≤3 | ACUTE TOXICITY (oral) - Category 2 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 HNOC - Defatting irritant | |
| Guanidinium thiocyanate | ≥10 - ≤21 | 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 ACUTE TOXICITY (oral) - Category 4 | |

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Section 15. Regulatory information

| Poly(oxy-1,2-ethanediyl), .alpha [(1,1,3,3-tetramethylbutyl)phenyl] | -0.0 | SKIN IRRITATION - Category 2 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.

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Section 15. Regulatory information

Thailand : Not determined.

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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revision

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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

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

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