# **SAFETY DATA SHEET**



Avida Methyl Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9429B

# **Section 1. Identification**

#### 1.1 Product identifier

**Product name** 

: Avida Methyl Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part

Number G9429B

Part no. (chemical kit)
Part no.

: G9429B

: Avida Methyl Reagent Box 2, 96 Reactions/ 5282-0148/5282-0150 Avida Methyl and Duo Reagent Box 3, 96 Reactions Nuclease-Free Water 5271-0134 Avida Methyl Reagent Box 1, 96 Reactions 5282-0146 **End Prep Buffer** 5271-0121 End Prep Enzyme 5271-0122 Ligation Buffer 5271-0123 Ligation Enzyme 5271-0124 Adapter for ILM 5271-0139 Hyb Blocker 5271-0126 Hyb Buffer 5271-0127 Hyb Enhancer 5271-0128 Soft Conversion Reagent A 5271-0137 2X Methyl Amplification Mastermix 5271-0138 Avida Methyl Reagent Box 2, 96 Reactions 5282-0148 Library Wash Buffer 5271-0130 Hyb Wash Buffer 1 5271-0131 Hyb Wash Buffer 2 5271-0132 Avida Methyl and Duo Reagent Box 3, 96 5282-0150 Reactions

Soft Conversion Reagent B 5271-0113 Soft Conversion Binding Beads 5271-0141 5X Soft Conversion Wash Buffer 5271-0142 Soft Conversion Elution Buffer 5271-0143 Soft Conversion Repair Solution 5271-0144 Avida Beads Box, 96 Reactions 5282-0144 Library Binding Beads 5271-0135 Capture Beads 5271-0136 5280-0056 Avida Index Primer Pairs 97 -192 for ILM Avida Index Primer Pairs 97-192 for ILM 5274-0080

Validation date : 4/8/2024

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

**Identified uses** 

: Analytical reagent. For research use only.

Nuclease-Free Water 5.76 ml (96 reactions) End Prep Buffer 0.877 ml (96 reactions) End Prep Enzyme 0.351 ml (96 reactions) 2.960 ml (96 reactions) Ligation Buffer Ligation Enzyme 0.694 ml (96 reactions) 0.588 ml (96 reactions) Adapter for ILM Hyb Blocker 0.349 ml (96 reactions) Hyb Buffer 5.524 ml (96 reactions) Hvb Enhancer 0.988 ml (96 reactions) Soft Conversion Reagent A 0.387 ml (96 reactions) 2X Methyl Amplification Mastermix 2.940 ml (96 reactions) Library Wash Buffer 21.12 ml (96 reactions) Hyb Wash Buffer 1 31.680 ml (96 reactions) Hyb Wash Buffer 2 18.24 ml (96 reactions)

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## Section 1. Identification

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

Avida Index Primer Pairs 97-192 for ILM

: Not for use in diagnostic procedures.

6 x 0.750 ml 17.280 ml (96 reactions)

8 ml (96 reactions) 1.728 ml (96 reactions) 0.588 ml (96 reactions) 10.083 ml (96 reactions)

0.944 ml (96 reactions)

96 x 0.005 ml

#### 1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Ligation Buffer

### 1.4 Emergency telephone number

**Uses advised against** 

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). This material is considered hazardous by the OSHA

End Prep Enzyme

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.

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

Adapter for ILM 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.

While this material is not considered hazardous by the Hyb Blocker

> 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.

This material is considered hazardous by the OSHA Hyb Buffer

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

This material is considered hazardous by the OSHA Soft Conversion Reagent A

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2X Methyl Amplification Mastermix

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

Library Wash Buffer

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

Hyb Wash Buffer 1

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

Hyb Wash Buffer 2

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

Soft Conversion Reagent B

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

Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer

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

Soft Conversion Elution Buffer

Soft Conversion Repair

Solution

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

Library Binding Beads

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

and other users of this product.

Capture Beads

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

and other users of this product.

Avida Index Primer Pairs

97-192 for ILM

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

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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** 

toxicity

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

Ingredients of unknown : 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%

#### 2.2 GHS label elements

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### **Hazard pictograms**

: Hyb Buffer



Hyb Enhancer



Soft Conversion Reagent A





Soft Conversion Reagent B



Soft Conversion Binding Beads







Soft Conversion Elution Buffer



### Signal word

: 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

Avida Index Primer Pairs 97-192

for ILM

atements : Nuclease-Free Water End Prep Buffer No signal word. No signal word.

Warning

No signal word.

Warning

No signal word. No signal word.

Danger
Danger
Danger

No signal word. No signal word. No signal word. No signal word. Warning Danger

No signal word.

Danger

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

No signal word.

No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting

effects.

H320 - Causes eye irritation.

No known significant effects or critical hazards.

H320 - Causes eye irritation.

No known significant effects or critical hazards.

**Hazard statements** 

End Prep Enzyme Ligation Buffer Ligation Enzyme

Adapter for ILM

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Hyb Blocker No known significant effects or critical hazards.

Hyb Buffer H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H370 - Causes damage to organs. (central nervous

system (CNS))

H412 - Harmful to aquatic life with long lasting

effects.

H351 - Suspected of causing cancer. Hyb Enhancer

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

No known significant effects or critical hazards.

Soft Conversion Reagent A H227 - Combustible liquid.

H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child.

2X Methyl Amplification Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2

Soft Conversion Reagent B Soft Conversion Binding Beads

H226 - Flammable liquid and vapor.

H314 - Causes severe skin burns and eye damage.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

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

Capture Beads

Avida Index Primer Pairs 97-192

for ILM

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.

#### **Precautionary statements**

**Prevention** 

: Nuclease-Free Water Not applicable.

P273 - Avoid release to the environment. End Prep Buffer

End Prep Enzyme Not applicable. 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. Hyb Enhancer

P280 - Wear protective gloves, protective clothing

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

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

P280 - Wear protective gloves, protective clothing

and eye or face protection.

P210 - Keep away from flames and hot surfaces.

No smoking. Not applicable.

Not applicable.

Not applicable.

2X Methyl Amplification Mastermix

Library Wash Buffer Hyb Wash Buffer 1

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.

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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 Soft Conversion Elution Buffer

Not applicable. P280 - Wear protective gloves, protective clothing

and eye or face protection.

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 97-192

for ILM

Not applicable. Not applicable. Not applicable.

Not applicable.

Response

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.

Not applicable.

2X Methyl Amplification Mastermix Not applicable.

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2

Hyb Wash Buffer 2 Not applicable.
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

rınsıng.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Soft Conversion Binding Beads P391 - Collect spillage.

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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

Capture Beads

Avida Index Primer Pairs 97-192

for ILM

Not applicable. Not applicable.

Not applicable.

Not applicable.

**Storage** 

: Nuclease-Free Water Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Hyb Buffer Not applicable. Hyb Enhancer Not applicable.

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

Keep cool.

Not applicable.

2X Methyl Amplification Mastermix

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

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

Keep cool.

5X Soft Conversion Wash Buffer Not applicable. Not applicable. Soft Conversion Elution Buffer Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Capture Beads Not applicable.

Not applicable. Avida Index Primer Pairs 97-192

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

Library Binding Beads
Capture Beads
Not applicable.
Not applicable.
Not applicable.

Avida Index Primer Pairs 97-192 Not applicable.

for ILM

Supplemental label : Nu

elements

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. None known.

Hyb Wash Buffer 2 None known.
Soft Conversion Reagent B None known.
Soft Conversion Binding Beads Keep contained.

Keep container tightly closed. Do not breathe vapor or spray. Do not taste or swallow. Use only

with adequate ventilation. Wash thoroughly after

handling.

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

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Avida Index Primer Pairs 97-192 None known. for ILM

#### 2.3 Other hazards

Hazards not otherwise classified

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

Soft Conversion Binding Beads Causes respiratory tract burns. Causes digestive

tract burns.

5X Soft Conversion Wash Buffer None known. Soft Conversion Elution Buffer None known. Soft Conversion Repair Solution None known. Library Binding Beads None known. Capture Beads None known. Avida Index Primer Pairs 97-192 None known.

for ILM

# Section 3. Composition/information on ingredients

Substance/mixture

Nuclease-Free Water Substance End Prep Buffer Mixture End Prep Enzyme Mixture Ligation Buffer Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hyb Buffer Mixture Hyb 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 Avida Index Primer Pairs 97-192 for Mixture **ILM** 

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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		
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]omegahydroxy-	<0.1	9036-19-5
Hyb Enhancer		
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]omegahydroxy-	<0.1	9036-19-5
Soft Conversion Reagent B		
ammonium hydrogensulphite	≥50 - ≤75	10192-30-0
Soft Conversion Binding Beads		
Ethanol	≥50 - ≤75	64-17-5
Guanidinium thiocyanate	≥10 - ≤21	593-84-0
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# Section 3. Composition/information on ingredients

Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega. hydroxy- ≤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. Immediately flush eyes with plenty of water,

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.

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

occasionally lifting the upper and lower eyelids.

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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.

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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.

: Nuclease-Free Water Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

End Prep Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of

position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person

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Inhalation

Date of issue:

symptoms may be delayed. The exposed person

End Prep Enzyme

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 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 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 adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

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

attention if symptoms occur.

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

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

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

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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

Hyb Wash Buffer 2

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.

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

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 hours.

Soft Conversion Binding Beads

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

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5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 97-192

for ILM

**Skin contact** 

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

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

hours.

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

attention if symptoms occur.

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

attention if symptoms occur.

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

attention if symptoms occur.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water.

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

before reuse.

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 clothing before reuse. Clean shoes thoroughly

before reuse.

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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 physician. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

5X Soft Conversion Wash Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Soft Conversion Elution Buffer 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

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Soft Conversion Repair Solution

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

gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean

medical attention if symptoms occur.

shoes thoroughly before reuse.

Library Binding Beads Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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

medical attention if symptoms occur.

Avida Index Primer Pairs 97-192

for ILM

Capture Beads

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

medical attention if symptoms occur.

Ingestion : Nuclease-Free Water

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

occur

End Prep Buffer Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not

induce vomiting unless directed to do so by medical

personnel.

End Prep Enzyme Was

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.

Ligation Enzyme

Ligation Buffer

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

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Adapter for ILM

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.

Hyb Blocker

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

Hyb Buffer

Hyb Enhancer

Wash out mouth with water. Remove dentures if

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

2X Methyl Amplification Mastermix

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

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

Soft Conversion Reagent A

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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

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.

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. 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 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,

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Soft Conversion Repair Solution

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

Library Binding Beads

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

Capture Beads

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

occur.

Avida Index Primer Pairs 97-192

for ILM

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

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

Eye contact

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

2X Methyl Amplification Mastermix

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

Avida Index Primer Pairs 97-192

for ILM

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.

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#### 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
Avida Index Primer Pairs 97-192

for ILM

Skin contact

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

Hyb Enhancer
Soft Conversion Reagent A
2X Methyl Amplification Mastermix
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
Avida Index Primer Pairs 97-192
for II M

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

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. 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. 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.

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

Library Wash Buffer

Hyb Wash Buffer 1

No known significant effects or critical hazards.

Soft Conversion Binding Beads

No known significant effects or critical hazards.

May cause burns to mouth, throat and stomach.

Corrosive to the digestive tract. Causes burns.

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

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.

Capture Beads

No known significant effects or critical hazards.

Avida Index Primer Pairs 97-192 No known significant effects or critical hazards. for ILM

### 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

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:

watering redness

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

pain watering redness

No specific data.

No specific data.

No specific data.

No specific data.

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 97-192

for ILM

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Inha	lation	

: 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. No specific data. Adapter for ILM 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.

Capture Beads
Avida Index Primer Pairs 97-192
No specific data.
No specific data.
No specific data.

for ILM

Skin contact: 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 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:

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pain or irritation

blistering may occur

redness

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads Avida Index Primer Pairs 97-192

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

No specific data.

for ILM

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

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

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

2X Methyl Amplification Mastermix No specific data.

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

Soft Conversion Binding Beads Adverse symptoms may include the following:

stomach pains

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

Avida Index Primer Pairs 97-192

for ILM

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.

Treat symptomatically. Contact poison treatment End Prep Enzyme

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

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specialist immediately if large quantities have been

ingested or inhaled.

Hyb Blocker Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Buffer In case of inhalation of decomposition products in a

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

surveillance for 48 hours.

Hyb Enhancer In case of inhalation of decomposition products in a

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

surveillance for 48 hours.

Soft Conversion Reagent A Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

2X Methyl Amplification Mastermix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Library Wash Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Wash Buffer 1 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Wash Buffer 2 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

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

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

surveillance for 48 hours.

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.

Avida Index Primer Pairs 97-192

for ILM

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

ingested or inhaled.

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### **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. Hyb 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. Soft Conversion Elution Buffer No specific treatment. Soft Conversion Repair Solution No specific treatment. No specific treatment. Library Binding Beads Capture Beads No specific treatment. Avida Index Primer Pairs 97-192 No specific treatment.

#### **Protection of first-aiders**

: Nuclease-Free Water

for ILM

No action shall be taken involving any personal risk

or without suitable training.

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

or without suitable training.

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

or without suitable training. 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

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

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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

or without suitable training.

Capture Beads No action shall be taken involving any personal risk

or without suitable training.

Avida Index Primer Pairs 97-192 No action s

for ILM

No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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

surrounding fire.

End Prep Buffer Use an extinguishing agent suitable for the

surrounding fire.

End Prep Enzyme

Use an extinguishing agent suitable for the

surrounding fire.

Ligation Buffer Use an extinguishing agent suitable for the

surrounding fire.

Ligation Enzyme Use an extinguishing agent suitable for the

surrounding fire.

Adapter for ILM Use an extinguishing agent suitable for the

surrounding fire.

Hyb Blocker Use an extinguishing agent suitable for the

surrounding fire.

Hyb Buffer Use an extinguishing agent suitable for the

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surrounding fire.
Hyb Enhancer Use an extinguis

Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Reagent A Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

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

surrounding fire.

Library Wash Buffer Use an extinguishing agent suitable for the

surrounding fire.

Hyb Wash Buffer 1 Use an extinguishing agent suitable for the

surrounding fire.

Hyb Wash Buffer 2 Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Reagent B Use an extinguishing agent suitable for the

surrounding fire.

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

Use an extinguishing agent suitable for the

surrounding fire.

surrounding fire.

surrounding fire.

Library Binding Beads Use an extinguishing agent suitable for the

surrounding fire.

Capture Beads

Use an extinguishing agent suitable for the

surrounding fire.

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5X Soft Conversion Wash Buffer

for ILM

Use an extinguishing agent suitable for the

surrounding fire.

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 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 Do not use water jet.

5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
Avida Index Primer Pairs 97-192
None known.
None known.
None known.
None known.

for ILM

### 5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: Nuclease-Free Water

End Prep Buffer

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

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

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any waterway, sewer or drain.
End Prep Enzyme In a fire or if heated, a pressur

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

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.

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

Capture Beads

and the container may burst.

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for ILM

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

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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 No specific data.

Hyb Blocker No specific data.

Hyb Buffer Decomposition products may include the following

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

Hyb Enhancer Decomposition products may include the following

materials: carbon dioxide carbon monoxide 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

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Soft Conversion Binding Beads Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

sulfur oxides

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

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for ILM

No specific data. No specific data.

### **5.3 Advice for firefighters**

Special protective actions for fire-fighters

: Nuclease-Free Water Promptly isolate the scene by removing all persons

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

without suitable training.

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

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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 p

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 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.

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

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

without suitable training.

Library Binding Beads Promptly isolate the scene by removing all persons

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

without suitable training.

Capture Beads Promptly isolate the scene by removing all persons

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

without suitable training.

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for ILM

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

without suitable training.

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Special protective equipment for fire-fighters

: Nuclease-Free Water Fire-fighters should wear appropriate protective

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

pressure mode.

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.

End Prep Enzyme Fire-fighters should wear appropriate protective

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

pressure mode.

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.

Adapter for ILM Fire-fighters should wear appropriate protective

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

pressure mode.

Hyb Blocker Fire-fighters should wear appropriate protective

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

pressure mode.

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.

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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.

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for ILM

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

pressure mode.

# Section 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Nuclease-Free Water

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

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**End Prep Buffer** 

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

End Prep Enzyme

appropriate personal protective equipment.

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

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.

Ligation Buffer No action shall be taken involving any personal

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

Ligation Enzyme

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Hyb Blocker

Hyb Buffer

## Section 6. Accidental release measures

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.

Adapter for ILM No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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 Hyb Enhancer 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 Soft Conversion Reagent A

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 2X Methyl Amplification Mastermix 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.

Library Wash Buffer

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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

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate

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

personal protective equipment.

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

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

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

risk or without suitable training. Evacuate

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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.

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

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

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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

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**6.2 Environmental** : Nuclease-Free Water

precautions

**End Prep Buffer** 

End Prep Enzyme

Ligation Buffer

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".

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

Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

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

Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air). Water polluting material. May be harmful to the environment if released in

large quantities.

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

caused environmental pollution (sewers,

waterways, soil or air).

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

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waterways, soil or air).

Ligation 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).

Adapter for ILM Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Hyb Blocker Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Hyb Buffer Avoid dispersal of spilled material and runoff and

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

waterways, soil or air). Water polluting material. May be harmful to the environment if released in

large quantities.

Hyb Enhancer Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

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

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

caused environmental pollution (sewers,

waterways, soil or air).

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

caused environmental pollution (sewers,

waterways, soil or air).

Library Wash Buffer Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Hyb Wash Buffer 1 Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

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

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

caused environmental pollution (sewers,

waterways, soil or air).

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

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

caused environmental pollution (sewers,

waterways, soil or air).

Soft Conversion Binding Beads Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers.

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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

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).

Soft Conversion Repair Solution 
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).

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).

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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).

#### 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

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disposal container. Dispose of via a licensed waste

disposal contractor.

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

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

disposal contractor.

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

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

disposal contractor.

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

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

disposal contractor.

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

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

disposal contractor.

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

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

disposal contractor.

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

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inert dry material and place in an appropriate waste 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.

Soft Conversion Binding Beads 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.

5X Soft Conversion 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.

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

area. Contain and collect spillage with non-combustible, 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.

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

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

disposal contractor.

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

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

disposal contractor.

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Soft Conversion Repair Solution

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.

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**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

not reuse container.

Put on appropriate personal protective equipment

(see Section 8).

Hyb Blocker Put on appropriate personal protective equipment

(see Section 8).

Hyb Buffer Put on appropriate personal protective equipment

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

retain product residue and can be hazardous. Do

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

7.1 Precautions for safe handling

**End Prep Buffer** 

**Ligation Buffer** 

Ligation Enzyme

Adapter for ILM

Hyb Enhancer

Soft Conversion Reagent A

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

2X Methyl Amplification Mastermix

Put on appropriate personal protective equipment

(see Section 8).

Library Wash Buffer

Put on appropriate personal protective equipment

(see Section 8).

Hyb Wash Buffer 1

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

Hyb Wash Buffer 2

Put on appropriate personal protective equipment

Soft Conversion Reagent B

(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.

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).

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for ILM

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

Eating, drinking and smoking should be prohibited

Advice on general occupational hygiene

: Nuclease-Free Water

**End Prep Buffer** 

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

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

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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

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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

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

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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

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5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

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: Nuclease-Free Water

**End Prep Buffer** 

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.

processed. Workers should wash hands and face

7.2 Conditions for safe storage, including any incompatibilities

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

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End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

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 until ready for use. Containers that have been

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Hyb Buffer

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.

opened must be carefully resealed and kept upright

Hyb Enhancer

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

Soft Conversion Reagent A

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.

2X Methyl Amplification Mastermix

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

Library Wash Buffer

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Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

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 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

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Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

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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. 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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#### 7.3 Specific end use(s)

Recommendations

: 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 Hvb 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 Avida Index Primer Pairs 97-192 for ILM

Industrial applications, Professional applications. Industrial applications. Professional applications. Industrial applications, Professional applications.

## Industrial sector specific solutions

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. Avida Index Primer Pairs 97-192 Not available. for ILM

### Section 8. Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits

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## Section 8. Exposure controls/personal protection

In the state of th	Post and Post Co
Ingredient name	Exposure limits
Nuclease-Free Water	
water	None.
Ford Proce Postfore	
End Prep Buffer	Name
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/m <sup>3</sup> 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
	1 vvv t. 10 mg/m o nouro. I omi. total duot
Hyb Buffer	
tetramethylammonium chloride	None.
Dextran sulfate sodium	None.
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]	None.
omegahydroxy-	
High Enhances	
Hyb Enhancer Formamide	ACGIH TLV (United States, 1/2023).
1 offiamide	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.
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### Section 8. Exposure controls/personal protection

#### 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/m<sup>3</sup> 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/m<sup>3</sup> 8 hours.

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

TWA: 1900 mg/m<sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours.

Guanidinium thiocyanate

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

omega.-hydroxy-

None.

#### **Biological exposure indices**

No exposure indices known.

#### **8.2 Exposure controls**

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.

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### Section 8. Exposure controls/personal protection

#### **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. Hyb 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. 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. Avida Index Primer Pairs 97-192 Liquid.

for ILM

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. 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.

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for ILM

### Section 9. Physical and chemical properties and safety characteristics

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. Not available. Soft Conversion Elution Buffer Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 97-192 Not available. for ILM

Odor

: Nuclease-Free Water Odorless. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. 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. Not available. Soft Conversion Repair Solution Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 97-192 Not available.

**Odor threshold** 

Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix 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. Avida Index Primer Pairs 97-192 Not available. for ILM

pH :

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Nuclease-Free Water7End Prep Buffer8End Prep Enzyme7.5Ligation Buffer8Ligation Enzyme7.5Adapter for ILM8Hyb Blocker8Hyb Buffer7.5

Hyb Enhancer Not available. Soft Conversion Reagent A Not available.

2X Methyl Amplification Mastermix 8.6

Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Soft Conversion Reagent B
Soft Conversion Binding Beads
SX Soft Conversion Wash Buffer
Not available.
Not available.

Soft Conversion Elution Buffer 13 Soft Conversion Repair Solution 8 Library Binding Beads 8

Capture Beads Not available.

Avida Index Primer Pairs 97-192

for ILM

for ILM

#### **Melting point/freezing point**

Nuclease-Free Water 0°C (32°F) End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM 0°C (32°F) Hyb Blocker 0°C (32°F) Hyb Buffer Not available. Hvb Enhancer Not available. Soft Conversion Reagent A <-120°C (<-184°F) 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 0°C (32°F) 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. Avida Index Primer Pairs 97-192 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. Hyb Enhancer Not available. 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 Not available. Hyb Wash Buffer 2 100°C (212°F)

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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. Avida Index Primer Pairs 97-192 100°C (212°F)

for ILM

Flash point

: 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. Hvb 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
Avida Index Primer Pairs 97-192
Not available.
Not available.
Not available.
Not available.

for ILM

	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.

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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. Avida Index Primer Pairs 97-192 Not available. for ILM

#### **Flammability**

: Nuclease-Free Water 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 Hvb Blocker Not applicable. Hvb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Reagent A Not applicable. 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Beads Not applicable. Not applicable. 5X Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable. Library Binding Beads Capture Beads Not applicable. Avida Index Primer Pairs 97-192 Not applicable. for ILM

## Lower and upper explosion limit/flammability limit

: Nuclease-Free Water Not available. **End Prep Buffer** Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hvb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 97-192 Not available. for ILM

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)]

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	Vapo	r Pressu	re at 20°C	Vap	or pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
End Prep Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer						
water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Adapter for ILM						
water	17.5	2.3	-	92.258	12.3	-
Hyb Blocker						
water	17.5	2.3	-	92.258	12.3	_
Hyb Buffer						
water	17.5	2.3	-	92.258	12.3	-
tetramethylammonium chloride	0.00000001	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						

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and chemical	brobe	erties	and Sale	ety Cna	aracte	ristics
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	-
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	-

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Avida Index Primer Pairs 97-192 for ILM						
water	17.5	2.3	-	92.258	12.3	-

#### Relative vapor density

: Nuclease-Free Water 0.62 [Air = 1]End Prep Buffer Not available. End Prep Enzyme Not available. Not available. Ligation Buffer 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. Avida Index Primer Pairs 97-192 Not available. for ILM

#### **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. Hvb Blocker Not available. Hvb Buffer Not available. Hyb Enhancer Not available. Not available. Soft Conversion Reagent A 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. Avida Index Primer Pairs 97-192 Not available. for ILM

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Solubility(ies)

Media	Result
Nuclease-Free Water	
water	Soluble
End Prep Buffer water	Soluble
End Prep Enzyme	Journal
water	Soluble
Ligation Buffer water	Soluble
Ligation Enzyme	Soluble
water	Soluble
Adapter for ILM water	Soluble
Hyb Blocker	Soluble
water	Soluble
Hyb Buffer	Soluble
water Hyb Enhancer	Soluble
water	Soluble
Soft Conversion Reagent A	Salubla
water 2X Methyl Amplification Mastermix	Soluble
water	Soluble
Library Wash Buffer	Calubia
water Hyb Wash Buffer 1	Soluble
water	Soluble
Hyb Wash Buffer 2	0.1.11.
water Soft Conversion Reagent B	Soluble
water	Soluble
Soft Conversion Binding Beads	0.1511
water 5X Soft Conversion Wash Buffer	Soluble
water	Soluble
Soft Conversion Elution Buffer	0.1511
water Soft Conversion Repair Solution	Soluble
water	Soluble
Library Binding Beads	
water Capture Beads	Soluble
water	Soluble
Avida Index Primer Pairs 97-192 for ILM	
water	Soluble
Nuclease-Free Water -1.38	

Partition coefficient: n-octanol/water

End Prep Buffer Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Enhancer Soft Conversion Reagent A Not applicable. 2X Methyl Amplification Mastermix Not applicable. 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 Not applicable. Soft Conversion Binding Beads Not applicable. 5X Soft Conversion Wash Buffer Not applicable. Not applicable. Soft Conversion Elution Buffer Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs 97-192 Not applicable. for ILM

#### **Auto-ignition temperature**

: Nuclease-Free Water Not applicable. 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	-
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. Not available. Hyb Buffer 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. Avida Index Primer Pairs 97-192 Not available. for ILM

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#### **Viscosity**

: Nuclease-Free Water Not available. **End Prep Buffer** Not available. End Prep Enzyme Not available. Not available. Ligation Buffer 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. Avida Index Primer Pairs 97-192 Not available. for ILM

#### **Particle characteristics** Median particle size

Not applicable. End Prep Buffer End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Soft Conversion Reagent A Not applicable. 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Not applicable. Soft Conversion Reagent B Soft Conversion Binding Beads Not applicable.

5X Soft Conversion Wash Buffer

Nuclease-Free Water

Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Not applicable. Capture Beads Avida Index Primer Pairs 97-192 Not applicable.

for ILM

### Section 10. Stability and reactivity

10.1 Reactivity

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

Not applicable.

Not applicable.

for this product or its ingredients.

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

for this product or its ingredients.

No specific test data related to reactivity available End Prep Enzyme

for this product or its ingredients.

No specific test data related to reactivity available Ligation Buffer

for this product or its ingredients.

No specific test data related to reactivity available Ligation Enzyme

for this product or its ingredients.

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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.

Soft Conversion Elution Buffer No specific test data related to reactivity available

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.

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for ILM

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. Hvb Buffer The product is stable. Hyb Enhancer The product is stable. 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

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

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The product is stable. The product is stable.

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Adapter for ILM

### Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions

: Nuclease-Free Water Under normal conditions of storage and use, hazardous reactions will not occur.

End Prep Buffer Under normal conditions of storage and use, hazardous reactions will not occur.

End Prep Enzyme Under normal conditions of storage and use,

hazardous reactions will not occur.

Ligation Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Ligation Enzyme Under normal conditions of storage and use,

hazardous reactions will not occur.

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.

Library Wash Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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.

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for ILM

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

Soft Conversion Reagent A Avoid all possible sources of ignition (spark or

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

of ignition.

2X Methyl Amplification Mastermix No specific data.

Library Wash Buffer No specific data.

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10.5 Incompatible materials

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.

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

Capture Beads

: Nuclease-Free Water

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for ILM

May react or be incompatible with oxidizing

materials.

No specific data.

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.

May react or be incompatible with oxidizing Adapter for ILM

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

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

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.

Reactive or incompatible with the following Soft Conversion Binding Beads 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.

May react or be incompatible with oxidizing Capture Beads

materials.

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May react or be incompatible with oxidizing

LM 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,

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.

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

hazardous decomposition products should not be

produced.

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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.

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

produced.

## Section 11. Toxicological information

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
End Prep Buffer Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
End Prep Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Hyb Buffer tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female Rat	200 to 500 mg/kg	-
Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral LD50 Oral	Rat Rat	50 mg/kg 20600 mg/kg 2800 mg/kg	-
<b>Hyb Enhancer</b> Formamide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat - Male Rabbit Rat	>21 mg/l 17 g/kg 5570 mg/kg	4 hours - -
Hyb Wash Buffer 1 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral	Rat	2800 mg/kg	-
Soft Conversion Binding Beads				
Ethanol	LC50 Inhalation Vapor LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours
Guanidinium thiocyanate	LC50 Inhalation Dusts and mists LD50 Oral	Rat - Female Rat - Male, Female	3.181 mg/l 593 mg/kg	4 hours
Poly(oxy-1,2-ethanediyl), . alpha[	LD50 Oral	Rat	2800 mg/kg	-

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(1,1,3,3-tetramethylbutyl)		
phenyl]omegahydroxy-		

#### **Irritation/Corrosion**

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 mg	-
Ligation Enzyme Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-
Hyb Buffer Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl)	Eyes - Severe irritant	Rabbit	-	1 %	-
phenyl]omegahydroxy-					
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 Eyes - Moderate irritant	Rabbit Rabbit	-	250 ug 10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 50 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
	Skin - Moderate irritant	Rabbit	-	mg 24 hours 25 mg	-
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
Soft Conversion Binding Beads					
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Eyes - Moderate irritant	Rabbit	-	mg 0.066666667 minutes 100	-
	Eyes - Moderate irritant	Rabbit		mg 100 uL	_
Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl)	Eyes - Severe irritant	Rabbit	-	1 %	-
phenyl]omegahydroxy-					

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### **Sensitization**

Not available.

**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  Dextran sulfate sodium	Category 1 Category 3	oral -	central nervous system (CNS) 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.

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

Inhalation, Eyes.

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

Inhalation, Eyes.

Ligation Buffer Not available.

Ligation Enzyme Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

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

Inhalation, Eyes.

Hyb Blocker Not available.

Hyb Buffer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Hyb Enhancer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

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

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

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

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

Inhalation, Eyes.

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

Inhalation, Eyes.

Inhalation, Eyes.

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

Inhalation, Eyes.

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

Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Soft Conversion Repair Solution

> Inhalation, Eyes. Not available. Not available.

Not available.

Library Binding Beads Capture Beads

End Prep Enzyme

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for ILM

### Potential acute health effects

**Eye contact** 

Nuclease-Free Water No known significant effects or critical hazards. End Prep Buffer No known significant effects or critical hazards.

Causes eve irritation.

No known significant effects or critical hazards. Ligation Buffer

Causes eye irritation.

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

Causes serious eye irritation.

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

Causes serious eye irritation.

Soft Conversion Reagent B Soft Conversion Binding Beads Causes serious eye damage. 5X Soft Conversion Wash Buffer No known significant effects or critical hazards.

Soft Conversion Elution Buffer Causes serious eye damage.

No known significant effects or critical hazards. Soft Conversion Repair Solution

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Inhalation

Nuclease-Free Water

Hyb Enhancer

for ILM

Library Binding Beads Capture Beads

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

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exposure if inhaled.

Soft Conversion Reagent A 2X Methyl Amplification Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B No known significant effects or critical hazards. Causes damage to organs following a single

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

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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 Avida Index Primer Pairs 97-192 for ILM Corrosive to the respiratory system.

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

**Skin contact** 

: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer No known significant effects or critical hazards. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.

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
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for ILM

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.

Ingestion

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

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

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.

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM

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

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

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### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** 

Inhalation

: 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:

> 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

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.

Adverse symptoms may include the following: Soft Conversion Reagent B

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 No specific data. Capture Beads No specific data. Avida Index Primer Pairs 97-192 No specific data.

for ILM

: 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

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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

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

Avida Index Primer Pairs 97-192 No specific data.

for ILM

**Skin contact** 

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. Hvb Blocker 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 Soft Conversion Elution Buffer

No specific data.

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur No specific data.

Soft Conversion Repair Solution

Library Binding Beads

No specific data. Capture Beads No specific data.

Avida Index Primer Pairs 97-192 No specific data.

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Ingestion

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

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

Soft Conversion Binding Beads Adverse symptoms may include the following:

stomach pains

No specific data.

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

stomach pains
No specific data.

Soft Conversion Repair Solution

Soft Conversion Reagent B

Library Binding Beads
Capture Beads
Avida Index Primer Pairs 97-192
No specific data.
No specific data.
No specific data.

for ILM

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate : No

effects

: Not available.

Potential delayed effects: Not available.

Potential chronic health effects

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

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

repeated exposure.

Soft Conversion Reagent A
2X Methyl Amplification Mastermix

Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2

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.

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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 Avida Index Primer Pairs 97-192 for ILM No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

### Carcinogenicity

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

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.

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
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Mutagenicity

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 Avida Index Primer Pairs 97-192

for ILM

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 Avida Index Primer Pairs 97-192 for ILM

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 ebleride	229323.3 2800	204752.9	N/A N/A	N/A N/A	N/A N/A
Magnesium chloride	2000	2500	IN/A	IN/A	IN/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	450.2	2737.2	N/A	N/A	N/A
tetramethylammonium chloride	50	300	N/A	N/A	N/A
Dextran sulfate sodium	20600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha[	500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					
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	4744000		N1/A		
Hyb Wash Buffer 1	171428.6 1288	N/A N/A	N/A N/A	N/A N/A	N/A 1.5
Sodium dodecyl sulphate	1200	IN/A	IN/A	IN/A	1.0
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 - <i>Daphnia hyalina</i> - 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)	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
phenyl]omegahydroxy-	Acute LC50 10800 μg/l Marine water	Crustaceans - <i>Pandalus montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Hyb Enhancer			
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours

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Acute LC50 6569 mg/l Fresh water Fish 96 Acute NOEC 4640 mg/l Fresh water Algae 72	hours hours
Acute NOEC 4640 mg/l Fresh water Algae Fish 72 Acute NOEC 4640 mg/l Fresh water Fish 96	hours
Acute NOEC 4640 mg/l Fresh water Fish 96	
Acute NOEC 4640 mg/l Fresh water Fish 96	_
	hours
Soft Conversion Reagent A	
OUR CONVERSION REAGENT A	
	hours
	hours
	hours
/ Isake 2000 To Fingh	110410
Hyb Wash Buffer 1	
	hours
, , , , , , , , , , , , , , , , , , , ,	hours
Adult	Hours
	hours
	nours
Neonate Fill Circling against a large 100	1
	hours
	hours
	days
ramosa - Neonate	
	days
Neonate	
Chronic NOEC 0.8 mg/l Fresh water Fish - Gambusia holbrooki 28	days
Hyb Wash Buffer 2	
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-	
	hours
- Adult	
	hours
	hours
The state and th	
Soft Conversion Binding	
Beads	
	hours
	days
Neonate  Acute FCF0 340 until Freeh water  Alone Selements in an acute FCF0 340 until Freeh water	h =
	hours
alpha[	
(1,1,3,3-tetramethylbutyl)	
phenyl]omegahydroxy-	L
	hours
- Adult	
	hours
Acute LC50 7200 μg/l Fresh water Fish - Oncorhynchus mykiss 96	hours

12.2 Persistence and degradability

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Product/ingredient name	Test	Result	Dose	Inoculum
End Prep Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Enzyme				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Hyb Enhancer				
Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
Soft Conversion Reagent A tetrahydro-2-furylmethanol	-	92 % - Readily - 28 days	-	-
Hyb Wash Buffer 1				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-
Soft Conversion Binding Beads				
Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease-Free Water water	-	-	Readily
Hyb Buffer tetramethylammonium chloride	-	-	Readily
<b>Hyb Enhancer</b> Formamide	-	-	Readily
Soft Conversion Reagent A tetrahydro-2-furylmethanol	-	-	Readily
<b>Hyb Wash Buffer 1</b> Sodium dodecyl sulphate	-	-	Readily
Soft Conversion Binding Beads Ethanol	-	-	Readily

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Guanidinium thiocyanate - Inherent

### 12.3 Bioaccumulative potential

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

### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc)

: 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**: Limited quantity 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** : 833333333.3 lbs / 378333333.3 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 FLAMMABLE LIQUIDS - Category 4 Soft Conversion Reagent A

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 Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B

EYE IRRITATION - Category 2A Soft Conversion Binding Beads FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to respiratory tract

5X Soft Conversion Wash Buffer Not applicable.

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

Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Capture Beads Not applicable. Not applicable. Avida Index Primer Pairs 97-192 for ILM

#### **Composition/information on ingredients**

Name	%	Classification
End Prep Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Ligation Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Hyb Buffer tetramethylammonium chloride	≥10 - <15	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 3 SKIN IRRITATION - Category 2
Dextran sulfate sodium	≤3	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
<b>Hyb Enhancer</b> 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
Poly(oxy-1,2-ethanediyl), .alpha [(1,1,3,3-tetramethylbutyl)phenyl]	≤6.5	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

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Avida Methyl Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9429B

# **Section 15. Regulatory information**

omegahydroxy-		

#### **SARA 313**

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

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

#### **State regulations**

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

ALCOHOL; FORMAMIDE; AMMONIUM BISULFITE; ETHYL ALCOHOL

New York : The following components are listed: Ammonium bisulfite

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

BISULFITE; ETHYL ALCOHOL

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

TETRAHYDRO-; FORMAMIDE; SULFUROUS ACID, MONOAMMONIUM SALT;

**ETHANOL** 

#### California Prop. 65

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

#### **International regulations**

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.

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# **Section 15. Regulatory information**

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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**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

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### Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

UN = United Nations

✓ Indicates information that has changed from previously issued version.

### **Notice to reader**

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