# SAFETY DATA SHEET



Avida Methyl Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 Reactions, Part Number G9429A

### Section 1. Identification

**Product identifier** 

: Avida Methyl Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 Reactions, Part Number G9429A

Part no. (chemical kit)
Part no.

: G9429A

: Avida Methyl Reagent Box 2, 96 Reactions/ Avida Methyl and Duo Reagent Box 3, 96	5282-0148/5282-0150		
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	<u>5282-0148</u>		
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	<u>5282-0150</u>		
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	<u>5282-0144</u>		
Library Binding Beads	5271-0135		
Capture Beads	5271-0136		
Avida Index Primer Pairs 1 -96 for ILM	<u>5280-0055</u>		
Avida Index Primer Pairs 1-96 for ILM	5274-0079		

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

**Identified uses** 

: Analytical reagent. For research use only.

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

Soft Conversion Reagent B 6 x 0.750 ml

Soft Conversion Binding Beads 17.280 ml (96 reactions)

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## Section 1. Identification

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

Library Binding Beads Capture Beads

Avida Index Primer Pairs 1-96 for ILM

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

: Not for use in diagnostic procedures.

Supplier/Manufacturer

**Uses advised against** 

 Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of operation) : CHEMTREC®: 1-800-424-9300

### Section 2. Hazard identification

#### 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 1

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 1

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

Health Hazards Not Otherwise Classified - Category 1

H400 AQUATIC HAZARD (ACUTE) - Category 1
H411 AQUATIC HAZARD (LONG-TERM) - Category 2

#### Soft Conversion Elution

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Buffer

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

**GHS label elements** 

**Hazard pictograms** : Hyb Buffer





Hyb Enhancer



Soft Conversion Reagent A





Soft Conversion Reagent B





Soft Conversion Binding

**Beads** 







Soft Conversion Elution

Buffer



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

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.

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### **Hazard statements**

Library Binding Beads Capture Beads

Avida Index Primer Pairs

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

1-96 for ILM

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.

Ligation Buffer H320 - Causes eye irritation. Ligation Enzyme

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

No signal word.

No signal word.

No signal word.

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

H370 - Causes damage to organs. (central nervous

system (CNS))

H412 - Harmful to aquatic life with long lasting effects.

H351 - Suspected of causing cancer. Hyb Enhancer

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

H227 - Combustible liquid. Soft Conversion Reagent A

H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child. No known significant effects or critical hazards.

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

H319 - Causes serious eye irritation. H226 - Flammable liquid and vapor.

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

Causes respiratory tract burns. Causes digestive tract burns.

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution Library Binding Beads

Capture Beads Avida Index Primer Pairs

1-96 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. **End Prep Buffer** P273 - Avoid release to the environment.

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

Hyb Buffer P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

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

product.

P264 - Wash thoroughly after handling.

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Hyb Enhancer P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing

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

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

Not applicable.

P280 - Wear protective gloves, protective clothing

and eye or face protection.

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

2X Methyl Amplification

Mastermix

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

Soft Conversion Reagent B Soft Conversion Binding

Beads

P280 - Wear eye or face protection.

P280 - Wear protective gloves, protective clothing

and eve or face protection.

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

P273 - Avoid release to the environment.

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Capture Beads

Avida Index Primer Pairs

P280 - Wear protective gloves, protective clothing

and eye or face protection.

Not applicable.

Not applicable.

Library Binding Beads

1-96 for ILM

Not applicable. Not applicable. Not applicable.

: Nuclease-Free Water

**End Prep Buffer** End Prep Enzyme Not applicable. Not applicable.

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

Ligation Enzyme

Not applicable.

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 Hyb Blocker Hyb Buffer

Not applicable. Not applicable.

P308 + P311 - IF exposed or concerned: 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

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

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

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advice or attention.

Response

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2X Methyl Amplification

Mastermix

Library Wash Buffer Not applicable. Hvb Wash Buffer 1 Not applicable. 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 rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Not applicable.

Soft Conversion Binding Beads

P391 - Collect spillage.

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

1-96 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. Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Hyb Blocker Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Enhancer Not applicable. Soft Conversion Reagent A

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**Disposal** 

2X Methyl Amplification

Mastermix

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

1-96 for ILM

: Nuclease-Free Water

**End Prep Buffer** 

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable. Not applicable.

Not applicable.

P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

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

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

Not applicable.

accordance with all local, regional, national and

international regulations.

2X Methyl Amplification

Mastermix

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

Soft Conversion Binding

Beads

P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Not applicable.

Not applicable.

Not applicable. Not applicable.

Avida Index Primer Pairs Not applicable. 1-96 for ILM

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Supplemental label 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 None known.

Mastermix

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

Keep container tightly closed. Do not breathe vapor Beads or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. None known.

None known.

5X Soft Conversion Wash

Buffer

Soft Conversion Elution None known.

Buffer

Soft Conversion Repair

None known. Solution

Library Binding Beads

Capture Beads Avida Index Primer Pairs

None known. None known. 1-96 for ILM

Hyb Buffer

Hyb Buffer

Percentage of the mixture consisting of ingredient(s)

of unknown acute oral toxicity: 1 - 10%

2X Methyl Amplification

Mastermix

Soft Conversion Reagent B

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.4% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 10% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 70%

Other hazards which do not : Nuclease-Free Water result in classification

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. None known.

2X Methyl Amplification

Mastermix

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 None known.

Beads

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

None known.

None known.

None known.

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Solution

Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM None known. None known. None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Nuclease-Free Water Substance **End Prep Buffer** Mixture End Prep Enzyme Mixture **Ligation Buffer** Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hyb Buffer Mixture Hyb Enhancer Mixture Soft Conversion Reagent A Mixture 2X Methyl Amplification Mixture Mastermix Library Wash Buffer Mixture Hyb Wash Buffer 1 Mixture Hyb Wash Buffer 2 Mixture Soft Conversion Reagent B Mixture Soft Conversion Binding Mixture Beads 5X Soft Conversion Wash Mixture Buffer Soft Conversion Elution Mixture Buffer Soft Conversion Repair Mixture Solution Library Binding Beads Mixture Capture Beads Mixture Avida Index Primer Pairs Mixture 1-96 for ILM

Ingredient name	Synonyms	% (w/w)	CAS number
Nuclease-Free Water			
water	Water	100	7732-18-5
End Prep Buffer			
Magnesium chloride	Magnesium chloride	≥1 - ≤5	7786-30-3
End Prep Enzyme			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
Ligation Enzyme			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
Hyb Buffer			
tetramethylammonium chloride	tetramethylammonium chloride	≥10 - ≤30	75-57-0
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## Section 3. Composition/information on ingredients

Dextran sulfate sodium	Dextran Sulfate	≥1 - ≤5	9011-18-1
Dexiral Sulfate Socium	Dexiral Sullate	-1-30	3011310-1
Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	Polyethylene glycol octaphenyl ether	≤0.1	9036-19-5
Hyb Enhancer			
Formamide	Formamide	≥80	75-12-7
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	tetrahydro-2-furylmethanol	≥80	97-99-4
Hyb Wash Buffer 1			
Sodium dodecyl sulphate	Sodium dodecyl sulphate	≥0.1 - ≤1	151-21-3
Hyb Wash Buffer 2			
Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	Polyethylene glycol octaphenyl ether	≤0.1	9036-19-5
Soft Conversion Reagent B			
ammonium hydrogensulphite	ammonium hydrogensulphite	≥60 - ≤80	10192-30-0
Soft Conversion Binding Beads			
Ethanol	Ethanol	≥60 - ≤80	64-17-5
Guanidinium thiocyanate	Guanidine thiocyanate	≥10 - ≤30	593-84-0
Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	Polyethylene glycol octaphenyl ether	≥5 - ≤10	9036-19-5

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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

**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

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Hyb Enhancer

Mastermix

2X Methyl Amplification

Soft Conversion Binding

## Section 4. First-aid measures

medical attention if irritation occurs.

End Prep Enzyme Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists,

get medical attention.

Ligation Buffer Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Ligation Enzyme Immediately flush eyes with plenty of water,

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

get medical attention.

Adapter for ILM Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Hyb Blocker Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Hyb Buffer Immediately flush eyes with plenty of water,

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

If necessary, call a poison center or physician.

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. Immediately flush eyes with plenty of water.

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

medical attention if irritation occurs.

Library Wash Buffer Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

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

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

medical attention if irritation occurs.

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

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

medical attention if irritation occurs.

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

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

to rinse for at least 10 minutes. Get medical attention. Get medical attention immediately. Call a poison

lower eyelids. Check for and remove any contact

Beads center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and

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5X Soft Conversion Wash Buffer physician.
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Check for and remove any contact lenses. Get

lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

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.

Avida Index Primer Pairs

1-96 for ILM

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Inhalation : Nuclease-Free Water

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

attention if symptoms occur.

**End Prep Buffer** 

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

48 hours.

End Prep Enzyme

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

as a collar, tie, belt or waistband.

**Ligation Buffer** 

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.

Ligation Enzyme

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

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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.

Adapter for ILM

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

attention if symptoms occur.

Hyb Blocker

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

attention if symptoms occur.

48 hours.

Hyb Buffer

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

Hyb Enhancer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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

2X Methyl Amplification Mastermix

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

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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 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 selfcontained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5X Soft Conversion Wash Buffer

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

Soft Conversion Elution
Buffer

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.

Soft Conversion Repair Solution

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.

Library Binding Beads Remove victim to fresh air and keep at rest in a

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Skin contact

position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a Capture Beads position comfortable for breathing. Get medical attention if symptoms occur. Avida Index Primer Pairs Remove victim to fresh air and keep at rest in a 1-96 for ILM position comfortable for breathing. Get medical attention if symptoms occur. : Nuclease-Free Water Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. **End Prep Buffer** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. End Prep Enzyme Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Ligation Buffer Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Ligation Enzyme Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Adapter for ILM Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Hyb Blocker Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Hyb Buffer 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. Flush contaminated skin with plenty of water. Hyb Enhancer 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.

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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. 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. Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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.

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.

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

medical attention if symptoms occur.

: 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.

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

personnel.

Wash out mouth with water. Remove dentures if 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

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

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**End Prep Buffer** 

End Prep Enzyme

Ingestion

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airway. Loosen tight clothing such as a collar, tie,

belt or waistband.

**Ligation Buffer** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give

small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if symptoms occur. 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

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Adapter for ILM Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce

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

unconscious, place in recovery position and get medical attention immediately. Maintain an open

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 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. Soft Conversion Reagent A If material has been swallowed and the exposed

Ligation Enzyme

Hyb Blocker

Hyb Buffer

Hyb Enhancer

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2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

Soft Conversion Binding Beads

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.

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

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.

medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

belt or waistband.

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5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

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

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

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.

### 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 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.

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Soft Conversion Binding Causes serious eye damage. Beads 5X Soft Conversion Wash No known significant effects or critical hazards. Buffer Soft Conversion Elution Causes serious eye damage. Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads

Inhalation

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

1-96 for ILM

Avida Index Primer Pairs

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

Hyb Wash Buffer 1 Hvb 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

1-96 for ILM

: 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

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards. No known significant effects or critical hazards. 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. 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. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.

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 severe burns.

**Skin contact** 

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Beads

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads

Capture Beads Avida Index Primer Pairs

1-96 for ILM

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.

Ingestion

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

Hyb Blocker Hyb Buffer

Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification

Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2

Soft Conversion Reagent B Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs

1-96 for ILM

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

following a single exposure if swallowed.

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

#### 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.

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Soft Conversion Reagent A Adverse symptoms may include the following:

> pain or irritation watering redness

2X Methyl Amplification

Mastermix

No specific data.

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

Soft Conversion Reagent B Adverse symptoms may include the following:

> pain or irritation watering

redness

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

pain watering redness

5X Soft Conversion Wash

Buffer

No specific data.

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

pain watering redness

Soft Conversion Repair

Solution

No specific data.

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

1-96 for ILM

No specific data.

Inhalation

: 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. Hvb 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 No specific data.

Buffer

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**Skin contact** 

Soft Conversion Elution No specific data.

Buffer

Soft Conversion Repair No specific data.

Solution

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

Avida Index Primer Pairs

1-96 for ILM

No specific data.

Hyb Blocker

: 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

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

> irritation redness

Adverse symptoms may include the following: Hyb Enhancer

> reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

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

2X Methyl Amplification

Mastermix

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

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

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

1-96 for ILM

No specific data.

Ingestion

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

Hyb Enhancer Adverse symptoms may include the following:

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

Soft Conversion Binding

Beads

No specific data.

Adverse symptoms may include the following:

5X Soft Conversion Wash

Buffer

stomach pains No specific data.

fer '

Buffer

Adverse symptoms may include the following:

stomach pains No specific data.

Soft Conversion Repair

Soft Conversion Elution

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs

1-96 for ILM

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

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

Notes to physician

: Nuclease-Free Water Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

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

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

surveillance for 48 hours.

End Prep Enzyme Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Ligation Buffer In case of inhalation of decomposition products in a

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

surveillance for 48 hours.

Ligation Enzyme Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Adapter for ILM Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Blocker Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Buffer In case of inhalation of decomposition products in a

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

surveillance for 48 hours.

Hyb Enhancer In case of inhalation of decomposition products in a

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

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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

1-96 for ILM

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

ingested or inhaled.

No specific treatment.

**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

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

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Beads

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs

1-96 for ILM

No specific treatment.

No specific treatment.

No specific treatment.

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

**Protection of first-aiders** 

: Nuclease-Free Water

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

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

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Soft Conversion Binding

Beads

resuscitation.

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

Soft Conversion Elution

Buffer

No action shall be taken involving any personal risk

or without suitable training.

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

Library Binding Beads

No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk

or without suitable training.

Avida Index Primer Pairs

1-96 for ILM

Capture Beads

No action shall be taken involving any personal risk

or without suitable training.

### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

surrounding fire.

End Prep Buffer Use an extinguishing agent suitable for the

surrounding fire.

End Prep Enzyme Use an extinguishing agent suitable for the

surrounding fire.

Ligation Buffer Use an extinguishing agent suitable for the

surrounding fire.

Ligation Enzyme Use an extinguishing agent suitable for the

surrounding fire.

Adapter for ILM Use an extinguishing agent suitable for the

surrounding fire.

Hyb Blocker Use an extinguishing agent suitable for the

surrounding fire.

Hyb Buffer Use an extinguishing agent suitable for the

surrounding fire.

Hyb Enhancer Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Reagent A

2X Methyl Amplification

Mastermix

Use dry chemical, CO2, water spray (fog) or foam.

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.

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Soft Conversion Reagent B Use an extinguishing agent suitable for the surrounding fire. Soft Conversion Binding Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. Beads 5X Soft Conversion Wash Use an extinguishing agent suitable for the Buffer surrounding fire. Use an extinguishing agent suitable for the Soft Conversion Elution surrounding fire. Buffer Soft Conversion Repair Use an extinguishing agent suitable for the Solution 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. Avida Index Primer Pairs Use an extinguishing agent suitable for the 1-96 for ILM surrounding fire. 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. Hvb Blocker None known.

**Unsuitable extinguishing** media

Hyb Buffer None known. Hyb Enhancer None known. Soft Conversion Reagent A Do not use water jet.

2X Methyl Amplification None known.

Mastermix

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

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs

1-96 for ILM

Do not use water jet.

None known.

None known.

None known.

None known. None known. None known.

Specific hazards arising from the chemical

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

and the container may burst.

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

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

waterway, sewer or drain.

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

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

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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

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

the risk of a subsequent explosion.

2X Methyl Amplification

Mastermix

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

and the container may burst.

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

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.

and the container may burst.

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

**Hazardous thermal** 

decomposition products

Library Binding Beads

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

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

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.

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

and the container may burst.

Avida Index Primer Pairs

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

and the container may burst.

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

No specific data.

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:

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carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Decomposition products may include the following Ligation Enzyme

> materials: carbon dioxide carbon monoxide

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

Hyb Buffer Decomposition products may include the following

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

Hyb Enhancer Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

Decomposition products may include the following Soft Conversion Reagent A

> 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

Decomposition products may include the following Hyb Wash Buffer 1

materials:

halogenated compounds metal oxide/oxides

Hyb Wash Buffer 2 No specific data.

Soft Conversion Reagent B Decomposition products may include the following

> materials: nitrogen oxides sulfur oxides

Soft Conversion Binding

**Beads** 

Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

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

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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

Avida Index Primer Pairs

1-96 for ILM

No specific data. No specific data.

Special protective actions for fire-fighters

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

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

without suitable training.

End Prep Buffer Promptly isolate the scene by removing all persons

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

without suitable training.

End Prep Enzyme Promptly isolate the scene by removing all persons

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

without suitable training.

Ligation Buffer Promptly isolate the scene by removing all persons

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

without suitable training.

Ligation Enzyme Promptly isolate the scene by removing all persons

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

without suitable training.

Adapter for ILM Promptly isolate the scene by removing all persons

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

without suitable training.

Hyb Blocker Promptly isolate the scene by removing all persons

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

without suitable training.

Hyb Buffer Promptly isolate the scene by removing all persons

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

without suitable training.

Hyb Enhancer Promptly isolate the scene by removing all persons

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

without suitable training.

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

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

to keep fire-exposed containers cool.

2X Methyl Amplification

Mastermix

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

without suitable training.

Library Wash Buffer Promptly isolate the scene by removing all persons

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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 Promptly isolate the scene by removing all persons Beads from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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 Promptly isolate the scene by removing all persons Buffer from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Soft Conversion Elution Promptly isolate the scene by removing all persons Buffer from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Soft Conversion Repair Promptly isolate the scene by removing all persons Solution from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. **Library Binding Beads** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons Capture Beads from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avida Index Primer Pairs Promptly isolate the scene by removing all persons 1-96 for ILM from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. : 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

Special protective equipment for fire-fighters

End Prep Enzyme

Ligation Buffer

(SCBA) with a full face-piece operated in positive

pressure mode.

Fire-fighters should wear appropriate protective

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

pressure mode. Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive

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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.

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

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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.

Fire-fighters should wear appropriate protective Capture Beads

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

pressure mode.

Avida Index Primer Pairs

1-96 for ILM

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

pressure mode.

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Nuclease-Free Water

Ligation Buffer

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 End Prep Buffer

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 Enzyme No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or

mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

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

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or

mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

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

through spilled material. Put on appropriate personal

protective equipment.

Hyb Blocker No action shall be taken involving any personal risk

> or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

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Hyb Enhancer

## Section 6. Accidental release measures

personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

Hyb Buffer No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or

mist. Provide adequate ventilation. Wear

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

mist. Provide adequate ventilation. Wear

appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment.
No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective

equipment.

2X Methyl Amplification

Soft Conversion Reagent A

Mastermix

: 04/08/2024

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

protective equipment.

Library Wash Buffer No action shall be taken involving any personal risk

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

protective equipment.

Hyb Wash Buffer 1 No action shall be taken involving any personal risk

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

protective equipment.

Hyb Wash Buffer 2 No action shall be taken involving any personal risk

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

protective equipment.

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Soft Conversion Reagent B 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.

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appropriate respirator when vertilation is induceduate.

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## Section 6. Accidental release measures

Soft Conversion Binding Beads

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.

5X Soft Conversion Wash

Buffer

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

Soft Conversion Elution 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear

Soft Conversion Repair Solution

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.

Library Binding Beads

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

Capture Beads

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

Avida Index Primer Pairs 1-96 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.

For emergency responders : Nuclease-Free Water

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

End Prep Enzyme

**End Prep Buffer** 

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

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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

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

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

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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

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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

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Soft Conversion Repair Solution

**Library Binding Beads** 

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

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".

**Environmental precautions** 

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

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).

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, waterways, soil or air).

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

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

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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.

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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).

2X Methyl Amplification

Mastermix

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 Wash Buffer Avoid dispersal of spilled material and runoff and

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

soil or air).

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

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

soil or air).

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

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

soil or air).

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

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

soil or air).

Soft Conversion Binding

Beads

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

Collect spillage.

5X Soft Conversion Wash

Buffer

Avoid dispersal of spilled material and runoff and 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

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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).

Avida Index Primer Pairs

1-96 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).

#### Methods and materials for containment and cleaning up

Methods for cleaning up : Nuclease-Free Water

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

**End Prep Buffer** 

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

End Prep Enzyme

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

Ligation Buffer

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

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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 St

Mastermix

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

disposal contractor.

Library Wash Buffer Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

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

disposal contractor.

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

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

disposal contractor.

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

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

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Solution

### Section 6. Accidental release measures

Buffer 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.

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

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

disposal contractor.

Avida Index Primer Pairs

Soft Conversion Repair

1-96 for ILM

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.

## Section 7. Handling and storage

Precautions for safe handling

**Protective measures** : Nuclease-Free Water Put on appropriate personal protective equipment

(see Section 8).

**End Prep Buffer** Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with

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

reuse container.

Put on appropriate personal protective equipment **Ligation Buffer** 

(see Section 8).

Ligation 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

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reuse container.

Soft Conversion Reagent A

2X Methyl Amplification

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

Mastermix

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Adapter for ILM Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment Hyb Blocker

(see Section 8).

Hyb Buffer

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

hazardous. Do not reuse container.

Hyb Enhancer Put on appropriate personal protective equipment

(see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe 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 (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 explosion-proof 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.

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

Put on appropriate personal protective equipment

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

(see Section 8). 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

Section 7. Handling and storage

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Soft Conversion Binding Beads

tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Do not 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 explosion-proof 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 Soft Conversion Elution

Buffer

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

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 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

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

: Nuclease-Free Water

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

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

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

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

Advice on general occupational hygiene

**End Prep Buffer** 

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

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

End Prep Enzyme

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Ligation Buffer

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

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

additional information on hygiene measures.

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additional information on hygiene measures.

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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 Soft Conversion Reagent A

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

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

2X Methyl Amplification Mastermix

Library Wash Buffer

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Hyb Wash Buffer 1

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

processed. Workers should wash hands and face before eating, drinking and smoking. Remove

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 hydiene 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 hydiene measures.

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

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

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Capture Beads

Avida Index Primer Pairs 1-96 for ILM

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.

Conditions for safe storage, : Nuclease-Free Water including any incompatibilities

**End Prep Buffer** 

End Prep Enzyme

**Ligation Buffer** 

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

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

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

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

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2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

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 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

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Soft Conversion Binding Beads

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 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

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

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.

Soft Conversion Repair Solution

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

Library Binding Beads

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Capture Beads

Avida Index Primer Pairs 1-96 for ILM 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.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
End Prep Enzyme	
Glycerol	CA Alberta Provincial (Canada, 6/2018).  OEL: 10 mg/m³ 8 hours. Form: Mist  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 10 mg/m³ 8 hours. Form: mist  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 20 mg/m³ 15 minutes. Form: mist  TWA: 10 mg/m³ 8 hours. Form: mist  CA British Columbia Provincial (Canada, 6/2023).  TWA: 3 mg/m³ 8 hours. Form: respirable mist  TWA: 10 mg/m³ 8 hours. Form: total mist
Ligation Enzyme Glycerol	CA Alberta Provincial (Canada, 6/2018).  OEL: 10 mg/m³ 8 hours. Form: Mist  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 10 mg/m³ 8 hours. Form: mist  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 20 mg/m³ 15 minutes. Form: mist  TWA: 10 mg/m³ 8 hours. Form: mist  CA British Columbia Provincial (Canada, 6/2023).  TWA: 3 mg/m³ 8 hours. Form: respirable mist

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## Section 8. Exposure controls/personal protection

### Hyb Enhancer

Formamide

TWA: 10 mg/m³ 8 hours. Form: total mist

CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.

OEL: 10 ppm 8 hours. OEL: 18 mg/m<sup>3</sup> 8 hours.

CA British Columbia Provincial (Canada, 6/2023). Absorbed through skin.

TWA: 10 ppm 8 hours.

CA Ontario Provincial (Canada, 6/2019). Absorbed through skin.

TWA: 10 ppm 8 hours.

CA Quebec Provincial (Canada, 6/2022).

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

CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.

STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.

Soft Conversion Reagent A

tetrahydro-2-furylmethanol

**Soft Conversion Binding Beads** 

Ethanol

OARS WEEL (United States, 4/2022). Absorbed through skin.

TWA: 0.5 ppm 8 hours.

CA Alberta Provincial (Canada, 6/2018).

OEL: 1000 ppm 8 hours. OEL: 1880 mg/m³ 8 hours.

CA British Columbia Provincial (Canada,

6/2023).

STEL: 1000 ppm 15 minutes.

CA Ontario Provincial (Canada, 6/2019).

STEL: 1000 ppm 15 minutes.

CA Saskatchewan Provincial (Canada,

7/2013).

STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.

CA Quebec Provincial (Canada, 6/2022).

STEV: 1000 ppm 15 minutes.

#### **Biological exposure indices**

No exposure indices known.

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**

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## Section 8. Exposure controls/personal protection

#### **Hygiene measures**

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

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

#### **Eye/face protection**

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

#### **Skin protection**

**Hand protection** 

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

#### **Body protection**

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

#### Other skin protection

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

#### **Respiratory protection**

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

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

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

#### **Appearance**

**Physical state** 

Nuclease-Free Water	Liquid.
End Prep Buffer	Liquid.
End Prep Enzyme	Liquid.
Ligation Buffer	Liquid.
Ligation Enzyme	Liquid.
Adapter for ILM	Liquid.
Hyb Blocker	Liquid.
Hyb Buffer	Liquid.
Hyb Enhancer	Liquid.
Soft Conversion Reagent A	Liquid.
OV Madley I A I'd' 4'	The state of the Control of the Cont

2X Methyl Amplification Liquid. [Clear.]

Mastermix

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

Beads

5X Soft Conversion Wash Liquid.

Buffer

Soft Conversion Elution Liquid.

Buffer

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Soft Conversion Repair Liquid. Solution Library Binding Beads Liquid. Capture Beads Liquid. Avida Index Primer Pairs Liquid. 1-96 for ILM : Nuclease-Free Water Colorless. Color **End Prep Buffer** Not available. Not available. End Prep Enzyme Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Not available. Hyb Enhancer Soft Conversion Reagent A Not available. 2X Methyl Amplification Not available. Mastermix Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Not available. Beads 5X Soft Conversion Wash Not available. Buffer Soft Conversion Elution Not available. Buffer Soft Conversion Repair Not available. Solution Not available. Library Binding Beads Capture Beads Not available. Avida Index Primer Pairs Not available. 1-96 for ILM Odor : Nuclease-Free Water Odorless. **End Prep Buffer** Not available. Not available. End Prep Enzyme **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 Not available. Mastermix Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Not available. Beads 5X Soft Conversion Wash Not available. Buffer Soft Conversion Elution Not available.

Buffer

Solution

Soft Conversion Repair

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Not available.

on an actor ictios		
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	1-96 for ILM	
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.  Not available.
	Adapter for ILM Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Methyl Amplification	Not available.
	Mastermix	rtot a tanabio.
	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	Not available.
	Beads	A
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution	Not available.
	Buffer	Not available.
	Soft Conversion Repair	Not available.
	Solution '	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	1-96 for ILM	
pH :	Nuclease-Free Water	7
	End Prep Buffer	8
	End Prep Enzyme	7.5
	Ligation Buffer	8
	Ligation Enzyme	7.5
	Adapter for ILM	8
	Hyb Blocker	8
	Hyb Buffer	7.5 Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A 2X Methyl Amplification	8.6
	Mastermix	0.0
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	7.2 to 7.6
	Hyb Wash Buffer 2	7.2 to 7.6
	Soft Conversion Reagent B	4.5 to 5.5
	Soft Conversion Binding	Not available.
	Beads	
	5X Soft Conversion Wash	Not available.
	Buffer	40
	Soft Conversion Elution	13
	Buffer Soft Conversion Popoir	0
	Soft Conversion Repair Solution	8
	Library Rinding Reads	Q

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Not available.

Library Binding Beads Capture Beads

				1-3
Melting	point/freezing	point	:	Νu

Avida Index Primer Pairs 1-96 for ILM

: 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. Hyb Enhancer Not available. Soft Conversion Reagent A <-120°C (<-184°F) 2X Methyl Amplification Not available.

8

Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Not available.
Hyb Wash Buffer 2
0°C (32°F)

Soft Conversion Reagent B
Soft Conversion Binding
Beads

O C (32 F)
Not available.
Not available.

5X Soft Conversion Wash 0°C (32°F)

Buffer
Soft Conversion Elution Not available.

Buffer
Soft Conversion Repair
Not available.
Not available.

Solution
Library Binding Beads
Capture Beads
Not available.
Not available.

Avida Index Primer Pairs 0°C (32°F)

1-96 for ILM

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) 100°C (212°F) Hyb Blocker Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A 177.7°C (351.9°F) 2X Methyl Amplification Not available.

Mastermix

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

Beads

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs 1-96 for ILM 100°C (212°F)

Not available.

Not available.

i voi avallable.

Not available. Not available. 100°C (212°F)

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. Hyb Buffer Not available. Hyb Enhancer Not available.

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

2X Methyl Amplification Not available.

Mastermix

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

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

Beads

5X Soft Conversion Wash Not available.

Buffer

Not available. Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Not available.

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

Not available. Not available.

1-96 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 Not available. Mastermix Library Wash Buffer Not available.

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Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Not available. Beads 5X Soft Conversion Wash Not available. Buffer Soft Conversion Elution Not available. Buffer Soft Conversion Repair Not available. Solution Not available. **Library Binding Beads** Capture Beads Not available. Avida Index Primer Pairs Not available. 1-96 for ILM : Nuclease-Free Water Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Not applicable. **Ligation Buffer** Ligation Enzyme Not applicable.

#### **Flammability**

Adapter for ILM Not applicable. Not applicable. Hyb Blocker Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Reagent A Not applicable. 2X Methyl Amplification Not applicable. Mastermix

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

Beads

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads Avida Index Primer Pairs

1-96 for ILM

Not applicable.

Not applicable.

Not applicable.

Not applicable. Not applicable. Not applicable.

### 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. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Not available.

Mastermix

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

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Soft Conversion Reagent B Soft Conversion Binding

**Beads** 

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Vapor pressure

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs 1-96 for ILM

: Nuclease-Free Water

Not available. Not available.

Not available.

Not available.

Not available.

Not available. Not available. Not available.

2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C (122°F)]

	Vapoi	r Pressui	re at 20°C	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
End Prep Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer						
water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Adapter for ILM						
water	17.5	2.3	-	92.258	12.3	-
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	-	-	-
<u> </u>			<u> </u>		1	<u>i</u>

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	1		1	,	1	1
Hyb Enhancer						
Formamide	0.045	0.006	-	-	-	-
Soft Conversion Reagent A						
tetrahydro-2-furyl- methanol	1.4	0.19	-	-	-	-
2X Methyl Amplification Mastermix						
water	17.5	2.3	-	92.258	12.3	-
Library Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Reagent B						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Binding Beads						
ethanol	42.94865	5.7	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-
5X Soft Conversion Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion						

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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	-
Avida Index Primer Pairs 1-96 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.
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	Not available.
Mastermix	
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Soft Conversion Reagent B	Not available.
Soft Conversion Binding	Not available.
Beads	
5X Soft Conversion Wash	Not available.
Buffer	
Soft Conversion Elution	Not available.
Buffer	
Soft Conversion Repair	Not available.
Solution	
Library Binding Beads	Not available.
Capture Beads	Not available.
Avida Index Primer Pairs	Not available.
1-96 for ILM	

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**Relative density** 

: Nuclease-Free Water End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Not available. Mastermix Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Not available. Beads 5X Soft Conversion Wash Not available. Buffer Soft Conversion Elution Not available. Buffer Soft Conversion Repair Not available. Solution Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs Not available. 1-96 for ILM

Solubility(ies)

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

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Soft Conversion Reagent B Soluble water Soft Conversion Binding Beads Soluble 5X Soft Conversion Wash Buffer water Soluble Soft Conversion Elution Buffer Soluble Soft Conversion Repair Solution Soluble Library Binding Beads Soluble water Capture Beads water Soluble Avida Index Primer Pairs 1-96 for ILM water Soluble

#### Partition coefficient: noctanol/water

: Nuclease-Free Water -1.38End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Enhancer Soft Conversion Reagent A Not applicable. 2X Methyl Amplification Not applicable. Mastermix 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 Not applicable. Beads 5X Soft Conversion Wash Not applicable. Buffer Soft Conversion Elution Not applicable. Buffer Soft Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs Not applicable. 1-96 for ILM

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

: Nuclease-Free Water Not applicable. 2X Methyl Amplification 215°C (419°F) Mastermix

Ingredient name	°C	<b>F</b>	Method
End Prep Enzyme			
Glycerol	370	698	-
Ligation Enzyme			
Glycerol	370	698	-

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Hyb Enhancer Formamide	>500	>932	ASTM D 2155-66
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	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. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Methyl Amplification Not available. Mastermix Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Not available. Beads 5X Soft Conversion Wash Not available. Buffer Soft Conversion Elution Not available. Buffer Soft Conversion Repair Not available. Solution Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs Not available

#### **Viscosity**

1-96 for ILM	Not available.
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	Not available.
Mastermix	
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.

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Soft Conversion Reagent B Soft Conversion Binding Beads

Not available. Not available.

5X Soft Conversion Wash

Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair

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

1-96 for ILM

Not available.

Not available.

Not available.

Not available. Not available.

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

: Nuclease-Free Water Not applicable. Not applicable. End Prep Buffer End Prep Enzyme Not applicable. Not applicable. **Ligation Buffer** Ligation Enzyme Not applicable. Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hvb Buffer Not applicable. Hyb Enhancer Soft Conversion Reagent A Not applicable. 2X Methyl Amplification Not applicable.

Mastermix

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

5X Soft Conversion Wash

Buffer Soft Conversion Elution

Buffer

Soft Conversion Repair Solution

**Library Binding Beads** Capture Beads

**Ligation Buffer** 

Ligation Enzyme

Avida Index Primer Pairs 1-96 for ILM

Not applicable.

Not applicable.

Not applicable.

Not applicable. Not applicable. Not applicable.

## Section 10. Stability and reactivity

Reactivity

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

this product or its ingredients.

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

this product or its ingredients.

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

this product or its ingredients. No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for

this product or its ingredients. No specific test data related to reactivity available for Adapter for ILM

this product or its ingredients.

No specific test data related to reactivity available for Hyb Blocker

this product or its ingredients.

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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 No specific test data related to reactivity available for

this product or its ingredients. Mastermix Library Wash Buffer No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for Hyb Wash Buffer 1 this product or its ingredients.

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

this product or its ingredients. No specific test data related to reactivity available for Soft Conversion Reagent B

this product or its ingredients.

Soft Conversion Binding No specific test data related to reactivity available for Beads this product or its ingredients.

5X Soft Conversion Wash No specific test data related to reactivity available for Buffer this product or its ingredients.

No specific test data related to reactivity available for Soft Conversion Elution Buffer this product or its ingredients.

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

this product or its ingredients. Solution Library Binding Beads No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for Capture Beads this product or its ingredients.

Avida Index Primer Pairs No specific test data related to reactivity available for 1-96 for ILM

this product or its ingredients.

#### **Chemical stability**

The product is stable. : Nuclease-Free Water End Prep Buffer The product is stable. End Prep Enzyme The product is stable. Ligation Buffer The product is stable. Ligation Enzyme The product is stable. Adapter for ILM The product is stable. Hyb Blocker The product is stable. Hyb Buffer The product is stable. Hyb Enhancer The product is stable. Soft Conversion Reagent A The product is stable. 2X Methyl Amplification The product is stable.

Mastermix Library Wash Buffer The product is stable. Hyb Wash Buffer 1 The product is stable. Hyb Wash Buffer 2 The product is stable. Soft Conversion Reagent B The product is stable. Soft Conversion Binding The product is stable.

5X Soft Conversion Wash The product is stable.

Beads

Buffer

Buffer

Solution

1-96 for ILM

Soft Conversion Elution The product is stable.

Soft Conversion Repair The product is stable.

Library Binding Beads The product is stable. Capture Beads The product is stable. Avida Index Primer Pairs The product is stable.

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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.

Under normal conditions of storage and use, Ligation Enzyme

hazardous reactions will not occur.

Adapter for ILM Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, Hyb Blocker

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

hazardous reactions will not occur.

Hyb Enhancer Under normal conditions of storage and use,

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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

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

hazardous reactions will not occur.

Soft Conversion Binding Under normal conditions of storage and use,

hazardous reactions will not occur.

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

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

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

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.

Avida Index Primer Pairs

Soft Conversion Elution

1-96 for ILM

Beads

Buffer

Buffer

Under normal conditions of storage and use,

hazardous reactions will not occur.

**Conditions to avoid** 

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 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.

No specific data.

2X Methyl Amplification

Mastermix

Library Wash Buffer

No specific data.

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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

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

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs

1-96 for ILM

No specific data.

No specific data.

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

#### Incompatible materials

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

Soft Conversion Reagent A

2X Methyl Amplification

Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hvb 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

1-96 for ILM

May react or be incompatible with oxidizing materials. Reactive or incompatible with the following materials: oxidizing materials

May react or be incompatible with oxidizing materials.

May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. Reactive or incompatible with the following materials:

oxidizing materials

May react or be incompatible with oxidizing materials.

Reactive or incompatible with the following materials:

acids

May react or be incompatible with oxidizing materials.

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

#### **Hazardous decomposition** products

: Nuclease-Free Water

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

produced.

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

hazardous decomposition products should not be

produced.

End Prep Enzyme Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Ligation Buffer Under normal conditions of storage and use,

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hazardous decomposition products should not be

produced.

Ligation Enzyme Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Adapter for ILM Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Blocker Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Enhancer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

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

hazardous decomposition products should not be

produced.

2X Methyl Amplification

Mastermix

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

produced.

Library Wash Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

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

hazardous decomposition products should not be

produced.

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

hazardous decomposition products should not be

produced.

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

hazardous decomposition products should not be

produced.

Soft Conversion Binding

Beads

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

produced.

5X Soft Conversion Wash

Buffer

Under normal conditions of storage and use,

hazardous decomposition products should not be produced.

Soft Conversion Elution

Buffer

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

produced.

Soft Conversion Repair

Solution

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

produced.

Library Binding Beads Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Capture Beads Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Avida Index Primer Pairs

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

produced.

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## Section 11. Toxicological information

### 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	-
F				
End Prep Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	_
Ligation Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	
Glyceror	LD30 Grai	Itat	12000 Hig/kg	
Hyb Buffer	L DSO D	Dalaka Mala	000 to 500 mod	
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/ kg	-
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium	LD50 Oral LD50 Oral	Rat Rat	20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), . alpha[	LD30 Oral	Rai	2800 mg/kg	-
(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists LD50 Dermal	Rat - Male Rabbit	>21 mg/l	4 hours
	LD50 Oral	Rat	17 g/kg 5570 mg/kg	-
Hyb Wash Buffer 1 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	_
Codium dodobyi saipnate	LEGO CIAI	Tat	1200 mg/kg	
Hyb Wash Buffer 2	L DEO Oral	Det	2000	
Poly(oxy-1,2-ethanediyl), . alpha[	LD50 Oral	Rat	2800 mg/kg	-
(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
Soft Conversion Binding				
Beads	LOEO Inhalation Marian	Det	424700/3	4 5 2 1 7 2
Ethanol	LC50 Inhalation Vapor LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours
Guanidinium thiocyanate	LC50 Inhalation Dusts and mists	Rat - Female	3.181 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	593 mg/kg	-
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[				
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-				
Fire in its annual and its annual and its annual and its annual a				

**Irritation/Corrosion** 

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Product/ingredient name	Result	Species	Score	Exposure	Observation
End Prep Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	_	24 hours 500	-
				mg	
Ligation Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	_	24 hours 500	-
	Skin - Mild irritant	Rabbit	_	mg 24 hours 500	_
	Okin Wild Intant	Rabbit		mg	
Hyb Buffer					
Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit	_	1 %	-
alpha[					
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-					
Soft Conversion Reagent					
A tetrahydro-2-furylmethanol	Eyes - Moderate irritant	Rabbit		24 hours 20	
tetranyuro-z-ruryimetrianor	Lyes - Moderate Initant	Nabbit	_	mg	-
Hyb Wash Buffer 1					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	_	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	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	
	Skiii - iviiid ii iidant	Nabbit	_	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), .	Eyes - Severe irritant	Rabbit	-	1 %	-
alpha[ (1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
Soft Conversion Binding					
Beads		D 11."		041	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667	-
				minutes 100	
	Eyes - Moderate irritant	Rabbit	-	mg 100 uL	-
Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit	-	1 %	-
alpha[ (1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					

**Sensitization** 

Not available.

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## Section 11. Toxicological information

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Classification** 

Product/ingredient name	IARC	NTP	ACGIH
Hyb Enhancer Formamide	-	-	A3
Soft Conversion Binding Beads Ethanol	1	-	A3

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hyb Buffer			
tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)
Dextran sulfate sodium	Category 3	-	Respiratory tract irritation
Hyb Wash Buffer 1 Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

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

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Nuclease-Free Water Not available.

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

Eves.

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,

Eves

Hyb Enhancer Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

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

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2X Methyl Amplification

Mastermix

Not available.

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2

Not available. Not available. Not available.

Soft Conversion Reagent B

Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Soft Conversion Binding

Beads

Buffer

Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation,

Routes of entry anticipated: Oral, Dermal, Inhalation,

Soft Conversion Elution

5X Soft Conversion Wash

Routes of entry anticipated: Oral, Dermal, Inhalation,

Buffer

Soft Conversion Repair

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs

Not available. Not available. Not available.

1-96 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. End Prep Enzyme

Causes eye irritation.

Ligation Buffer No known significant effects or critical hazards.

Causes eye irritation.

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

Causes serious eye irritation.

Causes serious eye damage.

Causes serious eye damage.

Soft Conversion Reagent A No known significant effects or critical hazards.

2X Methyl Amplification Mastermix Library Wash Buffer

No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 No known significant effects or critical hazards. Causes serious eye irritation.

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

1-96 for ILM

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

Inhalation

: Nuclease-Free Water No known significant effects or critical hazards. No known significant effects or critical hazards. **End Prep Buffer** End Prep Enzyme No known significant effects or critical hazards. **Ligation Buffer** No known significant effects or critical hazards. Ligation Enzyme

No known significant effects or critical hazards. No known significant effects or critical hazards. Adapter for ILM Hyb Blocker No known significant effects or critical hazards. Hyb Buffer Causes damage to organs following a single

exposure if inhaled.

No known significant effects or critical hazards. Hyb Enhancer

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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 1-96 for ILM

 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 1-96 for ILM

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

Hyb Buffer

Hyb Enhancer Soft Conversion Reagent A No known significant effects or critical hazards. No known significant effects or critical hazards.

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. 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.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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 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.

Skin contact

Ingestion

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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

1-96 for ILM

No known significant effects or critical hazards.

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

Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

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

Eye contact

: Nuclease-Free Water End Prep Buffer

End Prep Buffer No specific data.

End Prep Enzyme Adverse symptoms may include the following:

No specific data.

irritation watering redness

Ligation Buffer No specific data.

Ligation Enzyme Adverse symptoms may include the following:

irritation watering redness

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

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer No specific data.

Soft Conversion Reagent A Adverse symptoms may include the following:

pain or irritation watering redness

2X Methyl Amplification

Mastermix

No specific data.

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

Soft Conversion Reagent B Adverse symptoms may include the following:

pain or irritation

watering redness

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

pain watering redness

5X Soft Conversion Wash

Buffer

No specific data.

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

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pain watering redness

Soft Conversion Repair

Solution

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

1-96 for ILM

No specific data.

Inhalation

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

2X Methyl Amplification

Mastermix

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

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

respiratory tract irritation

coughing

5X Soft Conversion Wash

Buffer

Soft Conversion Elution No specific data.

Buffer

Soft Conversion Repair

Solution

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

1-96 for ILM

No specific data.

No specific data.

No specific data.

No specific data.

Skin contact

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

Adverse symptoms may include the following: Hyb Buffer

> irritation redness

Adverse symptoms may include the following: Hyb Enhancer

> reduced fetal weight increase in fetal deaths skeletal malformations

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Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations No specific data.

2X Methyl Amplification

Library Wash Buffer

Mastermix

No specific data.
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 No specific data.

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

pain or irritation redness

blistering may occur No specific data.

Soft Conversion Repair

Solution

Ingestion

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

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

stomach pains

5X Soft Conversion Wash

Buffer

No specific data.

Soft Conversion Elution

Adverse symptoms may include the following:

Buffer

stomach pains No specific data.

Soft Conversion Repair

Solution

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Library Binding Beads Capture Beads

Avida Index Primer Pairs 1-96 for ILM

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

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

Short term exposure

Potential immediate

effects

Potential delayed effects

: Not available.

: Not available.

**Long term exposure** 

Potential immediate

effects

Not available.

Potential delayed effects : Not available.

Potential chronic health effects

**General** : Nuclease-Free Water

> **End Prep Buffer** End Prep Enzyme **Ligation Buffer** Ligation Enzyme Adapter for ILM Hvb Blocker Hyb Buffer Hyb Enhancer

No known significant effects or critical hazards. May cause damage to organs through prolonged or

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.

repeated exposure.

Soft Conversion Reagent A 2X Methyl Amplification

Mastermix

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

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

Soft Conversion Binding

5X Soft Conversion Wash

Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs

1-96 for ILM

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

Soft Conversion Reagent A 2X Methyl Amplification

Mastermix

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.

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Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding **Beads** 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM Nuclease-Free Water

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

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.

Mutagenicity

**End Prep Buffer** End Prep Enzyme **Ligation Buffer** Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Methyl Amplification Mastermix Library Wash Buffer

Soft Conversion Reagent A 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

1-96 for ILM : Nuclease-Free Water

Reproductive toxicity

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. No known significant effects or critical hazards.

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

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

Soft Conversion Reagent B No known significant effects or critical hazards. Soft Conversion Binding **Beads** 

No known significant effects or critical hazards.

5X Soft Conversion Wash

Buffer

No known significant effects or critical hazards.

Soft Conversion Elution

No known significant effects or critical hazards.

Buffer Soft Conversion Repair

No known significant effects or critical hazards.

Solution

Library Binding Beads Capture Beads

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

Avida Index Primer Pairs

1-96 for ILM

### **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/l)
End Prep Buffer					
End Prep Buffer	229323.3	204752.9	N/A	N/A	N/A
Magnesium chloride	2800	2500	N/A	N/A	N/A
End Prep Enzyme					
Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Enzyme					
Glycerol	12600	N/A	N/A	N/A	N/A
Hyb Buffer					
Hyb Buffer	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-			1 1		
, , , , , , , , , , , , , , , , , , ,					
Hyb Enhancer					
Formamide	5570	17000	N/A	N/A	N/A
Library Wooh Buffor					
Library Wash Buffer Library Wash Buffer	37635.4	N/A	N/A	N/A	N/A
Library Wash Buller	37033.4	IN/A	IN/A	IN/A	IN/A
Hyb Wash Buffer 1					
Hyb Wash Buffer 1	171428.6	N/A	N/A	N/A	N/A
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
Hyb Wash Buffer 2					
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-					
, , , , , , ,					

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Library Binding Beads
Library Binding Beads
17855.8 N/A N/A N/A N/A

Other information : End Prep Buffer Adverse symptoms may include the following: May

cause skin sensitization.

Adapter for ILM Adverse symptoms may include the following: May

cause skin sensitization.

Hyb Enhancer Adverse symptoms may include the following: May

cause eye irritation. May cause skin irritation.

# Section 12. Ecological information

### **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 - <i>Lemna</i> aequinoctialis	96 hours
	Acute LC50 32000 μg/l Fresh water	Daphnia - <i>Daphnia hyalina</i> - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - 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[	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
	Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water Acute LC50 7200 μg/l Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours
Hyb Enhancer			
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 6569 mg/l Fresh water	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	Acute EC50 >98.9 mg/l	Algae	72 hours
	Acute EC50 >91.7 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >101 mg/l	Fish	96 hours
		1	

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Hyb Wash Buffer 1			
Sodium dodecyl sulphate	Acute EC50 1200 μg/l Marine water Acute LC50 900 μg/l Marine water	Algae - Skeletonema costatum Crustaceans - Artemia salina -	96 hours 48 hours
	Acute EC30 900 µg/i Marine water	Adult	40 110015
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 590 μg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water	Algae - <i>Ulva fasciata</i> - Zoea Crustaceans - <i>Pseudosida</i> <i>ramosa</i> - Neonate	96 hours 21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	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-			
	Acute LC50 10800 μg/l Marine water	Crustaceans - <i>Pandalus</i> <i>montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water Acute LC50 7200 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i>	48 hours 96 hours
	/ touto 2000 / 200 pg// Took water	Their Greeniynenae mywee	oo noaro
Soft Conversion Binding Beads			
Ethanol	Acute EC50 3306 mg/l Marine water	Algae - Ulva pertusa	96 hours
Landing	Acute EC50 1074 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 2 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 11000000 μg/l Marine water	Fish - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 100 ul/L Fresh water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 u/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
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-			
. ,, ,	Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
End Prep Enzyme				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Enzyme				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

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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
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-	-	Readily
Soft Conversion Binding Beads			
Ethanol Guanidinium thiocyanate	-  -	-	Readily Inherent

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	Low
End Prep Enzyme Glycerol	-1.76	-	Low
<b>Ligation Enzyme</b> Glycerol	-1.76	-	Low

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	_		
Hyb Buffer			
tetramethylammonium chloride	<-1.6	-	Low
Poly(oxy-1,2-ethanediyl), .	2.7	78.67	Low
alpha[			
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
prierryijomegarryuroxy-			
Hyb Enhancer			
Formamide	-0.82	-	Low
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	0.722	-	Low
Hyb Wash Buffer 1	2.02		Law
Sodium dodecyl sulphate	-2.03	-	Low
Hyb Wash Buffer 2			
Poly(oxy-1,2-ethanediyl), .	2.7	78.67	Low
alpha[ (1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			
pey., remegayarezy			
Soft Conversion Binding			
Beads Ethanol	-0.35	0.5	Low
Guanidinium thiocyanate	<-1.7	-	Low
Poly(oxy-1,2-ethanediyl), .	2.7	78.67	Low
alpha[			
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
prierryijornegarrydroxy-			

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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

## Section 13. Disposal considerations

### **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.

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## Section 14. Transport information

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

**Proof of classification** statement

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9).

**Additional information** 

Remarks: Excepted Quantity

**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

**IMDG** : Emergency schedules F-A, S-P

Special provisions 251, 340

**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

**Canadian lists** 

**Canadian NPRI** : The following components are listed: ammonia (total); ethanol

**CEPA Toxic substances** : None of the components are listed.

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)

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## Section 15. Regulatory information

Not listed.

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

Not listed.

**Inventory list** 

Canada : Not determined.
United States : Not determined.

### Section 16. Other information

**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

HPR = Hazardous Products Regulations
IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

#### 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 1 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 1	On basis of test data Calculation method Calculation method

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Avida Methyl Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 Reactions, Part Number G9429A

# **Section 16. Other information**

SERIOUS EYE DAMAGE - Category 1

Sof	ft Conversion Reagent B	
EY	E IRRITATION - Category 2A	Calculation method
Sof	ft Conversion Binding Beads	
		On basis of test data
SKI	IN CORROSION - Category 1C	Calculation method
SE	RIOUS EYE DAMAGE - Category 1	Calculation method
Hea	alth Hazards Not Otherwise Classified - Category 1	On basis of test data
AQ	UATIC HAZARD (ACUTE) - Category 1	Calculation method
AQ	UATIC HAZARD (LONG-TERM) - Category 2	Calculation method
Sof	ft Conversion Elution Buffer	
SK	IN CORROSION - Category 1	On basis of test data
FLA SKI SEI Hea AQ AQ	IN CORROSION - Category 1Ć RIOUS EYE DAMAGE - Category 1 alth Hazards Not Otherwise Classified - Category 1 AUATIC HAZARD (ACUTE) - Category 1 AUATIC HAZARD (LONG-TERM) - Category 2  It Conversion Elution Buffer	Calculation method Calculation method On basis of test data Calculation method Calculation method

<sup>▼</sup> Indicates information that has changed from previously issued version.

### **Notice to reader**

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

On basis of test data

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