

SAFETY DATA SHEET



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

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

1.1 Product identifier

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

UK (GB) REACH Registration number

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

CAS number :

| | |
|---------------------------------------|-----------------|
| Nuclease-Free Water | 7732-18-5 |
| End Prep Buffer | Not applicable. |
| End Prep Enzyme | Not applicable. |
| Ligation Buffer | Not applicable. |
| Ligation Enzyme | Not applicable. |
| Adapter for ILM | Not applicable. |
| Hyb Blocker | Not applicable. |
| Hyb Buffer | Not applicable. |
| Hyb Enhancer | Not applicable. |
| Soft Conversion Reagent A | Not applicable. |
| 2X Methyl Amplification Mastermix | Not applicable. |
| Library Wash Buffer | Not applicable. |
| Hyb Wash Buffer 1 | Not applicable. |
| Hyb Wash Buffer 2 | Not applicable. |
| Soft Conversion Reagent B | Not applicable. |
| Soft Conversion Binding Beads | Not applicable. |
| 5X Soft Conversion Wash Buffer | Not applicable. |
| Soft Conversion Elution Buffer | Not applicable. |
| Soft Conversion Repair Solution | Not applicable. |
| Library Binding Beads | Not applicable. |
| Capture Beads | Not applicable. |
| Avida Index Primer Pairs 1-96 for ILM | Not applicable. |

Part no. (chemical kit) : G9429A

Part no. :

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

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| | |
|---|------------------|
| Hyb Wash Buffer 1 | 5271-0131 |
| Hyb Wash Buffer 2 | 5271-0132 |
| <u>Avida Methyl and Duo Reagent Box 3, 96 Reactions</u> | <u>5282-0150</u> |
| 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 |
| <u>Avida Beads Box, 96 Reactions</u> | <u>5282-0144</u> |
| Library Binding Beads | 5271-0135 |
| Capture Beads | 5271-0136 |
| <u>Avida Index Primer Pairs 1 -96 for ILM</u> | <u>5280-0055</u> |
| Avida Index Primer Pairs 1-96 for ILM | 5274-0079 |

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

| | |
|-----------------------------|---|
| Identified uses | : Analytical reagent. For research use only. |
| | Nuclease-Free Water 5.76 ml (96 reactions) |
| | End Prep Buffer 0.877 ml (96 reactions) |
| | End Prep Enzyme 0.351 ml (96 reactions) |
| | Ligation Buffer 2.960 ml (96 reactions) |
| | Ligation Enzyme 0.694 ml (96 reactions) |
| | Adapter for ILM 0.588 ml (96 reactions) |
| | Hyb Blocker 0.349 ml (96 reactions) |
| | Hyb Buffer 5.524 ml (96 reactions) |
| | Hyb Enhancer 0.988 ml (96 reactions) |
| | Soft Conversion Reagent A 0.387 ml (96 reactions) |
| | 2X Methyl Amplification Mastermix 2.940 ml (96 reactions) |
| | Library Wash Buffer 21.12 ml (96 reactions) |
| | Hyb Wash Buffer 1 31.680 ml (96 reactions) |
| | Hyb Wash Buffer 2 18.24 ml (96 reactions) |
| | Soft Conversion Reagent B 6 x 0.750 ml |
| | Soft Conversion Binding Beads 17.280 ml (96 reactions) |
| | 5X Soft Conversion Wash Buffer 8 ml (96 reactions) |
| | Soft Conversion Elution Buffer 1.728 ml (96 reactions) |
| | Soft Conversion Repair Solution 0.588 ml (96 reactions) |
| | Library Binding Beads 10.083 ml (96 reactions) |
| | Capture Beads 0.944 ml (96 reactions) |
| | Avida Index Primer Pairs 1-96 for ILM 96 x 0.005 ml |
| Uses advised against | : Not for use in diagnostic procedures. |

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.
5500 Lakeside Cheadle Royal Business Park,
Cheadle, Cheshire, SK8 3GR
United Kingdom
Tel: +44 (0) 345 712 5292

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | | | |
|---------------------------|---|--------------------------|----------------------------|
| Product definition | : | Nuclease-Free Water | Mono-constituent 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 | Mixture |
| | | Reagent A | |
| | | 2X Methyl Amplification | Mixture |
| | | Mastermix | |
| | | Library Wash Buffer | Mixture |
| | | Hyb Wash Buffer 1 | Mixture |
| | | Hyb Wash Buffer 2 | Mixture |
| | | Soft Conversion | Mixture |
| | | Reagent B | |
| | | Soft Conversion Binding | Mixture |
| | | Beads | |
| | | 5X Soft Conversion | Mixture |
| | | Wash 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 | |

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

| | | | |
|--------------------------------------|--|--|-------------|
| End Prep Buffer | | | |
| H412 | LONG-TERM (CHRONIC) AQUATIC HAZARD | | Category 3 |
| Hyb Buffer | | | |
| H302 | ACUTE TOXICITY (oral) | | Category 4 |
| H315 | SKIN CORROSION/IRRITATION | | Category 2 |
| H370 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | | Category 1 |
| H412 | LONG-TERM (CHRONIC) AQUATIC HAZARD | | Category 3 |
| Hyb Enhancer | | | |
| H351 | CARCINOGENICITY | | Category 2 |
| H360 | REPRODUCTIVE TOXICITY | | Category 1B |
| H373 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | | Category 2 |
| Soft Conversion Reagent A | | | |
| H319 | SERIOUS EYE DAMAGE/EYE IRRITATION | | Category 2 |
| H360FD | REPRODUCTIVE TOXICITY | | Category 1B |
| Soft Conversion Reagent B | | | |
| H319 | SERIOUS EYE DAMAGE/EYE IRRITATION | | Category 2 |
| Soft Conversion Binding Beads | | | |
| H226 | FLAMMABLE LIQUIDS | | Category 3 |
| H314 | SKIN CORROSION/IRRITATION | | Category 1C |
| H400 | SHORT-TERM (ACUTE) AQUATIC HAZARD | | Category 1 |
| H411 | LONG-TERM (CHRONIC) AQUATIC HAZARD | | Category 2 |

SECTION 2: Hazards identification

Soft Conversion

Elution Buffer

H314

SKIN CORROSION/IRRITATION

Category 1

Nuclease-Free Water

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

End Prep Buffer

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

End Prep Enzyme

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ligation Buffer

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ligation Enzyme

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Adapter for ILM

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Hyb Blocker

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Hyb Buffer

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Hyb Enhancer

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Soft Conversion Reagent A

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

2X Methyl Amplification Mastermix

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Library Wash Buffer

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Hyb Wash Buffer 1

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Hyb Wash Buffer 2

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Soft Conversion Reagent B

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Soft Conversion Binding Beads

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

5X Soft Conversion Wash Buffer

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Soft Conversion Elution Buffer

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Soft Conversion Repair Solution

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Library Binding Beads

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Capture Beads

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Avida Index Primer Pairs 1-96 for ILM

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity

: End Prep Buffer

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

End Prep Enzyme

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%

Ligation Buffer

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%

Ligation Enzyme

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%

Hyb Buffer

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%

SECTION 2: Hazards identification

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|---|--|
| Hyb Enhancer | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% |
| Soft Conversion Reagent A | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60% |
| 2X Methyl Amplification Mastermix | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60% |
| Library Wash Buffer | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10% |
| Hyb Wash Buffer 1 | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% |
| Soft Conversion Reagent B | Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10% |
| Soft Conversion Binding Beads | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30% |
| Soft Conversion Repair Solution | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60% |
| Library Binding Beads | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60% |
| Ingredients of unknown ecotoxicity | Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: > 60% |
| Hyb Buffer | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10% |
| 2X Methyl Amplification Mastermix | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% |
| Soft Conversion Reagent B | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% |
| | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% |
| | Contains 3.4% of components with unknown hazards to the aquatic environment |
| | Contains 10% of components with unknown hazards to the aquatic environment |
| | Contains 70% of components with unknown hazards to the aquatic environment |

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

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

2.2 Label elements

SECTION 2: Hazards identification

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 | No signal word. |
| End Prep Buffer | No signal word. |
| End Prep Enzyme | No signal word. |
| Ligation Buffer | No signal word. |
| Ligation Enzyme | No signal word. |
| Adapter for ILM | No signal word. |
| Hyb Blocker | No signal word. |
| Hyb Buffer | Danger |
| Hyb Enhancer | Danger |
| Soft Conversion Reagent A | Danger |
| 2X Methyl Amplification Mastermix | No signal word. |
| Library Wash Buffer | No signal word. |
| Hyb Wash Buffer 1 | No signal word. |
| Hyb Wash Buffer 2 | No signal word. |
| Soft Conversion Reagent B | Warning |
| Soft Conversion Binding Beads | Danger |
| 5X Soft Conversion Wash Buffer | No signal word. |
| Soft Conversion Elution Buffer | Danger |
| Soft Conversion Repair Solution | No signal word. |
| Library Binding Beads | No signal word. |
| Capture Beads | No signal word. |
| Avida Index Primer Pairs 1-96 for ILM | No signal word. |

SECTION 2: Hazards identification

| | | | |
|--------------------------|---|---|--|
| Hazard statements | : | Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer | No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects. 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. H302 - Harmful if swallowed. H315 - Causes skin irritation. H370 - Causes damage to organs. H412 - Harmful to aquatic life with long lasting effects. H351 - Suspected of causing cancer. H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H319 - Causes serious eye irritation. |
| | | Hyb Enhancer | H360FD - May damage fertility. May damage the unborn child. No known significant effects or critical hazards. |
| | | Soft Conversion Reagent A | H360FD - May damage fertility. May damage the unborn child. No known significant effects or critical hazards. |
| | | 2X Methyl Amplification Mastermix | No known significant effects or critical hazards. |
| | | Library Wash Buffer | No known significant effects or critical hazards. |
| | | Hyb Wash Buffer 1 | No known significant effects or critical hazards. |
| | | Hyb Wash Buffer 2 | No known significant effects or critical hazards. |
| | | Soft Conversion Reagent B | H319 - Causes serious eye irritation. |
| | | Soft Conversion Binding Beads | H226 - Flammable liquid and vapour. H314 - Causes severe skin burns and eye damage. H410 - Very toxic to aquatic life with long lasting effects. |
| | | 5X Soft Conversion Wash Buffer | No known significant effects or critical hazards. |
| | | Soft Conversion Elution Buffer | H314 - Causes severe skin burns and eye damage. |
| | | Soft Conversion Repair Solution | No known significant effects or critical hazards. |
| | | Library Binding Beads | No known significant effects or critical hazards. |
| | | Capture Beads | No known significant effects or critical hazards. |
| | | Avida Index Primer Pairs 1-96 for ILM | No known significant effects or critical hazards. |

Precautionary statements

| | | | |
|-------------------|---|---|---|
| Prevention | : | Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer | Not applicable. P273 - Avoid release to the environment. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P280 - Wear protective gloves. P273 - Avoid release to the environment. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product. |
| | | Hyb Enhancer | P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P260 - Do not breathe vapour. |
| | | Soft Conversion Reagent A | P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. |
| | | 2X Methyl Amplification Mastermix | Not applicable. |
| | | Library Wash Buffer | Not applicable. |
| | | Hyb Wash Buffer 1 | Not applicable. |

SECTION 2: Hazards identification

Response

| | |
|---------------------------------------|---|
| Hyb Wash Buffer 2 | Not applicable. |
| Soft Conversion Reagent B | P280 - Wear eye or face protection. |
| Soft Conversion Binding Beads | P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. |
| 5X Soft Conversion Wash Buffer | Not applicable. |
| Soft Conversion Elution Buffer | P280 - Wear protective gloves, protective clothing and eye or face protection. |
| Soft Conversion Repair Solution | Not applicable. |
| Library Binding Beads | Not applicable. |
| Capture Beads | Not applicable. |
| Avida Index Primer Pairs 1-96 for ILM | Not applicable. |
| : Nuclease-Free Water | Not applicable. |
| End Prep Buffer | Not applicable. |
| End Prep Enzyme | Not applicable. |
| Ligation Buffer | Not applicable. |
| Ligation Enzyme | Not applicable. |
| Adapter for ILM | Not applicable. |
| Hyb Blocker | Not applicable. |
| Hyb Buffer | P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor. |
| Hyb Enhancer | P308 + P313 - IF exposed or concerned: Get medical advice or attention. |
| Soft Conversion Reagent A | P308 + P313 - IF exposed or concerned: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| 2X Methyl Amplification Mastermix | Not applicable. |
| Library Wash Buffer | Not applicable. |
| Hyb 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. |
| Soft Conversion Binding Beads | P391 - Collect spillage. P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. |
| 5X Soft Conversion Wash Buffer | Not applicable. |
| Soft Conversion Elution Buffer | P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. 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. |
| Soft Conversion Repair Solution | Not applicable. |
| Library Binding Beads | Not applicable. |
| Capture Beads | Not applicable. |
| Avida Index Primer Pairs | Not applicable. |

SECTION 2: Hazards identification

| | | |
|-----------------|--------------------------|--|
| | 1-96 for ILM | |
| Storage | : Nuclease-Free Water | Not applicable. |
| | End Prep Buffer | Not applicable. |
| | End Prep Enzyme | Not applicable. |
| | Ligation Buffer | Not applicable. |
| | Ligation Enzyme | Not applicable. |
| | Adapter for ILM | Not applicable. |
| | Hyb Blocker | Not applicable. |
| | Hyb Buffer | Not applicable. |
| | Hyb Enhancer | Not applicable. |
| | Soft Conversion | Not applicable. |
| | Reagent A | |
| | 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 | Not applicable. |
| | Reagent B | |
| | Soft Conversion Binding | Not applicable. |
| | Beads | |
| | 5X Soft Conversion | Not applicable. |
| | Wash 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 | |
| Disposal | : Nuclease-Free Water | Not applicable. |
| | End Prep Buffer | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | End Prep Enzyme | 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. |
| | Soft Conversion | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | Reagent A | |
| | 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 | Not applicable. |
| | Reagent B | |
| | Soft Conversion Binding | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | Beads | |
| | 5X Soft Conversion | Not applicable. |
| | Wash Buffer | |
| | Soft Conversion Elution | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | Buffer | |
| | Soft Conversion Repair | Not applicable. |
| | Solution | |
| | Library Binding Beads | Not applicable. |
| | Capture Beads | Not applicable. |
| | Avida Index Primer Pairs | Not applicable. |

SECTION 2: Hazards identification

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|---|---|---|--|
| | | 1-96 for ILM | |
| Hazardous ingredients | : | Hyb Buffer | tetramethylammonium chloride |
| | | Hyb Enhancer | formamide |
| | | Soft Conversion | tetrahydro-2-furyl-methanol |
| | | Reagent A | |
| | | Soft Conversion Binding | salts of thiocyanic acid and Poly(oxy-1,2-ethanediyl), .alpha.-[|
| | | Beads | (1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- |
| Supplemental label elements | : | <input checked="" type="checkbox"/> Nuclease-Free Water | Not applicable. |
| | | End Prep Buffer | Not applicable. |
| | | End Prep Enzyme | Safety data sheet available on request. |
| | | Ligation Buffer | Not applicable. |
| | | Ligation Enzyme | Safety data sheet available on request. |
| | | Adapter for ILM | Not applicable. |
| | | Hyb Blocker | Not applicable. |
| | | Hyb Buffer | Not applicable. |
| | | Hyb Enhancer | Not applicable. |
| | | Soft Conversion | Not applicable. |
| | | Reagent A | |
| | | 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 | Not applicable. |
| | | Reagent B | |
| | | Soft Conversion Binding | Corrosive to the respiratory tract. |
| | | Beads | |
| | | 5X Soft Conversion | Not applicable. |
| | | Wash 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 | |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | Nuclease-Free Water | Not applicable. |
| | | End Prep Buffer | Not applicable. |
| | | End Prep Enzyme | Not applicable. |
| | | Ligation Buffer | Not applicable. |
| | | Ligation Enzyme | Not applicable. |
| | | Adapter for ILM | Not applicable. |
| | | Hyb Blocker | Not applicable. |
| | | Hyb Buffer | Not applicable. |
| | | Hyb Enhancer | Restricted to professional users. |
| | | Soft Conversion | Restricted to professional users. |
| | | Reagent A | |
| | | 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 | Not applicable. |
| | | Reagent B | |
| | | Soft Conversion Binding | Not applicable. |
| | | Beads | |
| | | 5X Soft Conversion | Not applicable. |
| | | Wash Buffer | |
| | | Soft Conversion Elution | Not applicable. |
| | | Buffer | |
| | | Soft Conversion Repair | Not applicable. |
| | | Solution | |

SECTION 2: Hazards identification

| | |
|--|-----------------|
| Library Binding Beads | Not applicable. |
| Capture Beads | Not applicable. |
| Avida Index Primer Pairs 1-96 for ILM | Not applicable. |

Special packaging requirements

| | | | |
|--|---|--|-----------------|
| Containers to be fitted with child-resistant fastenings | : | Nuclease-Free Water | Not applicable. |
| | | End Prep Buffer | Not applicable. |
| | | End Prep Enzyme | Not applicable. |
| | | Ligation Buffer | Not applicable. |
| | | Ligation Enzyme | Not applicable. |
| | | Adapter for ILM | Not applicable. |
| | | Hyb Blocker | Not applicable. |
| | | Hyb Buffer | Not applicable. |
| | | Hyb Enhancer | Not applicable. |
| | | Soft Conversion Reagent A | Not applicable. |
| | | 2X Methyl Amplification Mastermix | Not applicable. |
| | | Library Wash Buffer | Not applicable. |
| | | Hyb Wash Buffer 1 | Not applicable. |
| | | Hyb Wash Buffer 2 | Not applicable. |
| | | Soft Conversion Reagent B | Not applicable. |
| | | Soft Conversion Binding Beads | Not applicable. |
| | | 5X Soft Conversion Wash Buffer | Not applicable. |
| | | Soft Conversion Elution Buffer | Not applicable. |
| | | Soft Conversion Repair Solution | Not applicable. |
| | | Library Binding Beads | Not applicable. |
| | | Capture Beads | Not applicable. |
| | | Avida Index Primer Pairs 1-96 for ILM | Not applicable. |

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

SECTION 2: Hazards identification

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

2.3 Other hazards

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

| PBT | P | B | T | vPvB | vP | vB |
|----------------------------|-----|-----|-----|----------------------------|-----|-----|
| Nuclease-Free Water | | | | | | |
| Not applicable (Inorganic) | N/A | N/A | N/A | Not applicable (Inorganic) | N/A | N/A |

| | |
|---------------------------------------|---|
| End Prep Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| End Prep Enzyme | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Ligation Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Ligation Enzyme | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Adapter for ILM | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Hyb Blocker | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Hyb Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Hyb Enhancer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Soft Conversion Reagent A | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 2X Methyl Amplification Mastermix | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Library Wash Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Hyb Wash Buffer 1 | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Hyb Wash Buffer 2 | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Soft Conversion Reagent B | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Soft Conversion Binding Beads | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| 5X Soft Conversion Wash Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Soft Conversion Elution Buffer | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Soft Conversion Repair Solution | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Library Binding Beads | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Capture Beads | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Avida Index Primer Pairs 1-96 for ILM | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |

Other hazards which do not result in classification

| | |
|---------------------|-------------|
| Nuclease-Free Water | None known. |
| 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 | None known. |

SECTION 2: Hazards identification

Reagent A
 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 None known.
 Reagent B
 Soft Conversion Binding Causes digestive tract burns.
 Beads
 5X Soft Conversion None known.
 Wash Buffer
 Soft Conversion Elution None known.
 Buffer
 Soft Conversion Repair None known.
 Solution
 Library Binding Beads None known.
 Capture Beads None known.
 Avida Index Primer Pairs None known.
 1-96 for ILM

Substances identified as having endocrine disruptor properties

| Ingredient name | Impact |
|---|-------------|
| Soft Conversion Binding Beads Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | Environment |

SECTION 3: Composition/information on ingredients

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

| Product/ingredient name | Identifiers | % | Classification | Type |
|--|---|------|-------------------------------|------|
| Nuclease-Free Water water | UK (GB) REACH #: Annex IV REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5 | 100 | Not classified. | [1] |
| End Prep Buffer Magnesium chloride | EC: 232-094-6 CAS: 7786-30-3 | <2.5 | Aquatic Chronic 1, H410 (M=1) | [1] |

SECTION 3: Composition/information on ingredients

| | | | | |
|---|---|-----------|--|---------|
| End Prep Enzyme Glycerol | UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≥50 - ≤75 | Not classified. | [1] |
| Ligation Enzyme Glycerol | UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≥50 - ≤75 | Not classified. | [1] |
| Hyb Buffer tetramethylammonium chloride | EC: 200-880-8 CAS: 75-57-0 | ≥10 - <15 | Acute Tox. 2, H300 Acute Tox. 3, H311 Skin Irrit. 2, H315 STOT SE 1, H370 (central nervous system (CNS)) (oral) Aquatic Chronic 2, H411 | [1] |
| Dextran sulfate sodium | CAS: 9011-18-1 | ≤3 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 | [1] |
| Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | CAS: 9036-19-5 | <0.1 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) | [1] [2] |
| Hyb Enhancer Formamide | EC: 200-842-0 CAS: 75-12-7 | ≥90 | Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 (blood) (oral) | [1] [2] |
| Soft Conversion Reagent A tetrahydro-2-furyl-methanol | EC: 202-625-6 CAS: 97-99-4 Index: 603-061-00-7 | ≥90 | Eye Irrit. 2, H319 Repr. 1B, H360FD | [1] |
| Soft Conversion Reagent B ammonium hydrogensulphite | EC: 233-469-7 CAS: 10192-30-0 | ≥50 - ≤75 | Eye Irrit. 2, H319 EUH031 | [1] |
| Soft Conversion Binding Beads ethanol | EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5 | ≥50 - ≤75 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 | [1] [2] |
| salts of thiocyanic acid | EC: 209-812-1 CAS: 593-84-0 Index: 615-004-00-3 | ≥10 - ≤21 | Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 EUH032 EUH071 | [1] |
| Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | CAS: 9036-19-5 | ≤6.5 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 | [1] [3] |

SECTION 3: Composition/information on ingredients

| | | | |
|--|--|--|---|
| | | | (M=10) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above. |
|--|--|--|---|

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

Type

| | |
|-------------------------------|--|
| Nuclease-Free Water | [1] Constituent |
| End Prep Buffer | [1] Substance classified with a health or environmental hazard |
| End Prep Enzyme | [1] Substance with a workplace exposure limit |
| Ligation Enzyme | [1] Substance with a workplace exposure limit |
| Hyb Buffer | [1] Substance classified with a health or environmental hazard [2] Substance of equivalent concern |
| Hyb Enhancer | [1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit |
| Soft Conversion Reagent A | [1] Substance classified with a health or environmental hazard |
| Soft Conversion Reagent B | [1] Substance classified with a health or environmental hazard |
| Soft Conversion Binding Beads | [1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit [3] Substance of equivalent concern |

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

SECTION 4: First aid measures

4.1 Description of first aid measures

| | | |
|--------------------|---------------------------|--|
| Eye contact | : Nuclease-Free Water | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | End Prep Buffer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | End Prep Enzyme | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | 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. Get medical attention if irritation occurs. |
| | Adapter for ILM | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Hyb Blocker | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Hyb Buffer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. |
| | Hyb Enhancer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| | Soft Conversion Reagent A | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| | 2X Methyl Amplification | Immediately flush eyes with plenty of water, occasionally |

SECTION 4: First aid measures

| | |
|---|--|
| Mastermix | lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Library Wash Buffer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Hyb Wash Buffer 1 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Hyb Wash Buffer 2 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Soft Conversion Reagent B | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| Soft Conversion Binding Beads | Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. |
| 5X Soft Conversion Wash Buffer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Soft Conversion Elution Buffer | Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. |
| Soft Conversion Repair Solution | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Library Binding Beads | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Capture Beads | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| 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. Get medical attention if symptoms occur. |
| 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. Get medical attention if symptoms occur. |
| Adapter for ILM | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |

SECTION 4: First aid measures

| | |
|-----------------------------------|---|
| Hyb Blocker | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| 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 48 hours. |
| Hyb Enhancer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Soft Conversion Reagent A | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| 2X Methyl Amplification Mastermix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Library Wash Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Hyb Wash Buffer 1 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Hyb Wash Buffer 2 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Soft Conversion Reagent B | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 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 |

SECTION 4: First aid measures

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

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

Avida Index Primer Pairs 1-96 for ILM Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

: 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.

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

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

Adapter for ILM Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Hyb Buffer Flush contaminated skin with plenty of water. Remove

SECTION 4: First aid measures

| | |
|---------------------------------------|--|
| | contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Hyb Enhancer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Soft Conversion Reagent A | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| 2X Methyl Amplification Mastermix | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Library Wash Buffer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Hyb Wash Buffer 1 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Hyb Wash Buffer 2 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Soft Conversion Reagent B | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Soft Conversion Binding Beads | Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| 5X Soft Conversion Wash Buffer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Soft Conversion Elution Buffer | Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear 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. |
| Soft Conversion Repair Solution | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Library Binding Beads | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Capture Beads | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Avida Index Primer Pairs 1-96 for ILM | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |

SECTION 4: First aid measures

| | | |
|------------------|---------------------------|---|
| Ingestion | : Nuclease-Free Water | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | End Prep Buffer | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. |
| | End Prep Enzyme | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | Ligation 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. |
| | Ligation Enzyme | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | Adapter for ILM | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | Hyb Blocker | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | Hyb Buffer | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| | Hyb Enhancer | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| | Soft Conversion Reagent A | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. |

SECTION 4: First aid measures

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|-----------------------------------|---|
| | Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| 2X Methyl Amplification Mastermix | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Library Wash Buffer | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Hyb Wash Buffer 1 | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Hyb Wash Buffer 2 | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Soft Conversion Reagent B | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Soft Conversion Binding Beads | 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. |
| 5X Soft Conversion Wash Buffer | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Soft Conversion Elution Buffer | 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 |

SECTION 4: First aid measures

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| | 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 | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Library Binding Beads | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Capture Beads | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Avida Index Primer Pairs 1-96 for ILM | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| 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. |
| Ligation Buffer | No action shall be taken involving any personal risk or without suitable training. |
| Ligation Enzyme | No action shall be taken involving any personal risk or without suitable training. |
| Adapter for ILM | No action shall be taken involving any personal risk or without suitable training. |
| Hyb Blocker | No action shall be taken involving any personal risk or without suitable training. |
| Hyb Buffer | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| Hyb Enhancer | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| Soft Conversion Reagent A | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| 2X Methyl Amplification Mastermix | No action shall be taken involving any personal risk or without suitable training. |
| Library Wash Buffer | No action shall be taken involving any personal risk or without suitable training. |
| Hyb Wash Buffer 1 | No action shall be taken involving any personal risk or without suitable training. |
| Hyb Wash Buffer 2 | No action shall be taken involving any personal risk or without suitable training. |
| Soft Conversion Reagent B | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

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| Soft Conversion Binding Beads | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| 5X Soft Conversion Wash Buffer | No action shall be taken involving any personal risk or without suitable training. |
| Soft Conversion Elution Buffer | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| Soft Conversion Repair Solution | No action shall be taken involving any personal risk or without suitable training. |
| Library Binding Beads | No action shall be taken involving any personal risk or without suitable training. |
| Capture Beads | No action shall be taken involving any personal risk or without suitable training. |
| Avida Index Primer Pairs 1-96 for ILM | No action shall be taken involving any personal risk or without suitable training. |

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

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| Eye contact | : | Nuclease-Free Water | No specific data. |
| | | End Prep Buffer | No specific data. |
| | | End Prep Enzyme | No specific data. |
| | | Ligation Buffer | No specific data. |
| | | Ligation Enzyme | No specific data. |
| | | Adapter for ILM | No specific data. |
| | | Hyb Blocker | No specific data. |
| | | Hyb Buffer | Adverse symptoms may include the following: 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 | No specific data. |
| | Library Binding Beads | No specific data. |
| | Capture Beads | No specific data. |
| | 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. |
| | Ligation Buffer | No specific data. |
| | Ligation Enzyme | No specific data. |
| | Adapter for ILM | No specific data. |
| | Hyb Blocker | No specific data. |
| | Hyb Buffer | No specific data. |
| | Hyb Enhancer | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | Soft Conversion Reagent A | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | 2X Methyl Amplification Mastermix | No specific data. |
| | Library Wash Buffer | No specific data. |
| | Hyb Wash Buffer 1 | No specific data. |
| | Hyb Wash Buffer 2 | No specific data. |
| | Soft Conversion Reagent B | No specific data. |
| | Soft Conversion Binding Beads | Adverse symptoms may include the following: respiratory tract irritation coughing |
| | 5X Soft Conversion Wash Buffer | No specific data. |
| | Soft Conversion Elution Buffer | No specific data. |
| | Soft Conversion Repair Solution | No specific data. |
| | Library Binding Beads | No specific data. |
| | Capture Beads | No specific data. |
| | Avida Index Primer Pairs 1-96 for ILM | No specific data. |
| Skin contact | : Nuclease-Free Water | No specific data. |
| | End Prep Buffer | No specific data. |
| | End Prep Enzyme | No specific data. |
| | Ligation Buffer | No specific data. |
| | Ligation Enzyme | No specific data. |
| | Adapter for ILM | No specific data. |
| | Hyb Blocker | No specific data. |
| | Hyb Buffer | Adverse symptoms may include the following: irritation redness |
| | Hyb Enhancer | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | Soft Conversion Reagent A | Adverse symptoms may include the following: reduced foetal weight |

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| | | increase in foetal deaths skeletal malformations |
| | 2X Methyl Amplification Mastermix | No specific data. |
| | Library Wash Buffer | No specific data. |
| | Hyb Wash Buffer 1 | No specific data. |
| | Hyb Wash Buffer 2 | No specific data. |
| | Soft Conversion Reagent B | No specific data. |
| | Soft Conversion Binding Beads | Adverse symptoms may include the following: pain or irritation redness blistering may occur |
| | 5X Soft Conversion Wash Buffer | No specific data. |
| | Soft Conversion Elution Buffer | Adverse symptoms may include the following: pain or irritation redness blistering may occur |
| | Soft Conversion Repair Solution | No specific data. |
| | Library Binding Beads | No specific data. |
| | Capture Beads | No specific data. |
| | Avida Index Primer Pairs 1-96 for ILM | No specific data. |
| Ingestion | : Nuclease-Free Water | No specific data. |
| | End Prep Buffer | No specific data. |
| | End Prep Enzyme | No specific data. |
| | Ligation Buffer | No specific data. |
| | Ligation Enzyme | No specific data. |
| | Adapter for ILM | No specific data. |
| | Hyb Blocker | No specific data. |
| | Hyb Buffer | No specific data. |
| | Hyb Enhancer | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | Soft Conversion Reagent A | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | 2X Methyl Amplification Mastermix | No specific data. |
| | Library Wash Buffer | No specific data. |
| | Hyb Wash Buffer 1 | No specific data. |
| | Hyb Wash Buffer 2 | No specific data. |
| | Soft Conversion Reagent B | No specific data. |
| | Soft Conversion Binding Beads | Adverse symptoms may include the following: stomach pains |
| | 5X Soft Conversion Wash Buffer | No specific data. |
| | Soft Conversion Elution Buffer | Adverse symptoms may include the following: stomach pains |
| | Soft Conversion Repair Solution | No specific data. |
| | Library Binding Beads | No specific data. |
| | Capture Beads | No specific data. |
| | Avida Index Primer Pairs | No specific data. |

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4.3 Indication of any immediate medical attention and special treatment needed

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| Notes to physician | : Nuclease-Free Water | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | End Prep Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | End Prep Enzyme | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Ligation Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | Ligation Enzyme | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Adapter for ILM | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Hyb Blocker | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Hyb Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | Hyb Enhancer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | Soft Conversion Reagent A | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | 2X Methyl Amplification Mastermix | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Library Wash Buffer | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Hyb Wash Buffer 1 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Hyb Wash Buffer 2 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Soft Conversion Reagent B | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | 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. |
| 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. |

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| Soft Conversion Reagent A | No specific treatment. |
| 2X Methyl Amplification Mastermix | No specific treatment. |
| Library Wash Buffer | No specific treatment. |
| Hyb Wash Buffer 1 | No specific treatment. |
| Hyb Wash Buffer 2 | No specific treatment. |
| Soft Conversion Reagent B | No specific treatment. |
| Soft Conversion Binding Beads | No specific treatment. |
| 5X Soft Conversion Wash Buffer | No specific treatment. |
| Soft Conversion Elution Buffer | No specific treatment. |
| Soft Conversion Repair Solution | No specific treatment. |
| Library Binding Beads | No specific treatment. |
| Capture Beads | No specific treatment. |
| Avida Index Primer Pairs 1-96 for ILM | No specific treatment. |

SECTION 5: Firefighting measures**5.1 Extinguishing media**

| | | |
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| Suitable extinguishing media | : Nuclease-Free Water | Use an extinguishing agent suitable for the surrounding fire. |
| | End Prep Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | End Prep Enzyme | Use an extinguishing agent suitable for the surrounding fire. |
| | Ligation Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | Ligation Enzyme | Use an extinguishing agent suitable for the surrounding fire. |
| | Adapter for ILM | Use an extinguishing agent suitable for the surrounding fire. |
| | Hyb Blocker | Use an extinguishing agent suitable for the surrounding fire. |
| | Hyb Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | Hyb Enhancer | Use an extinguishing agent suitable for the surrounding fire. |
| | Soft Conversion Reagent A | Use an extinguishing agent suitable for the surrounding fire. |
| | 2X Methyl Amplification Mastermix | Use an extinguishing agent suitable for the surrounding fire. |
| | Library Wash Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | Hyb Wash Buffer 1 | Use an extinguishing agent suitable for the surrounding fire. |
| | Hyb Wash Buffer 2 | Use an extinguishing agent suitable for the surrounding fire. |
| | Soft Conversion Reagent B | Use an extinguishing agent suitable for the surrounding fire. |
| | Soft Conversion Binding Beads | Use dry chemical, CO ₂ , water spray (fog) or foam. |
| | 5X Soft Conversion Wash Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | Soft Conversion Elution Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | Soft Conversion Repair Solution | Use an extinguishing agent suitable for the surrounding fire. |
| | Library Binding Beads | Use an extinguishing agent suitable for the surrounding fire. |
| Capture Beads | Use an extinguishing agent suitable for the surrounding fire. | |
| Avida Index Primer Pairs 1-96 for ILM | Use an extinguishing agent suitable for the surrounding fire. | |
| Unsuitable extinguishing media | : Nuclease-Free Water | None known. |
| | End Prep Buffer | None known. |
| | End Prep Enzyme | None known. |
| | Ligation Buffer | None known. |
| | Ligation Enzyme | None known. |
| | Adapter for ILM | None known. |
| | Hyb Blocker | None known. |
| | Hyb Buffer | None known. |
| Hyb Enhancer | None known. | |

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| Soft Conversion Reagent A | None known. |
| 2X Methyl Amplification Mastermix | None known. |
| Library Wash Buffer | None known. |
| Hyb Wash Buffer 1 | None known. |
| Hyb Wash Buffer 2 | None known. |
| Soft Conversion Reagent B | None known. |
| Soft Conversion Binding Beads | Do not use water jet. |
| 5X Soft Conversion Wash Buffer | None known. |
| Soft Conversion Elution Buffer | None known. |
| Soft Conversion Repair Solution | None known. |
| Library Binding Beads | None known. |
| Capture Beads | None known. |
| Avida Index Primer Pairs 1-96 for ILM | None known. |

5.2 Special hazards arising from the substance or mixture

| | | |
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| Hazards from the substance or mixture | : Nuclease-Free Water | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | End Prep Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| | End Prep Enzyme | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Ligation Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Ligation Enzyme | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Adapter for ILM | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Hyb Blocker | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Hyb Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| | Hyb Enhancer | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Soft Conversion Reagent A | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | 2X Methyl Amplification Mastermix | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Library Wash Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Hyb Wash Buffer 1 | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Hyb Wash Buffer 2 | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Soft Conversion Reagent B | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Soft Conversion Binding Beads | Flammable liquid and vapour. 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 |

SECTION 5: Firefighting measures

Hazardous combustion products

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| | aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| 5X Soft Conversion Wash Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Soft Conversion Elution Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Soft Conversion Repair Solution | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Library Binding Beads | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Capture Beads | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Avida Index Primer Pairs 1-96 for ILM | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Nuclease-Free Water | No specific data. |
| End Prep Buffer | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides |
| End Prep Enzyme | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| Ligation Buffer | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds |
| Ligation Enzyme | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| Adapter for ILM | No specific data. |
| Hyb Blocker | No specific data. |
| Hyb Buffer | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides |
| Hyb Enhancer | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides |
| Soft Conversion Reagent A | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| 2X Methyl Amplification Mastermix | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| Library Wash Buffer | Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides |
| Hyb Wash Buffer 1 | Decomposition products may include the following materials: halogenated compounds |

SECTION 5: Firefighting measures

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| | 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 carbon monoxide nitrogen oxides halogenated compounds |
| Library Binding Beads | Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides |
| Capture Beads | No specific data. |
| Avida Index Primer Pairs 1-96 for ILM | No specific data. |

5.3 Advice for firefighters

Special protective actions for fire-fighters

| | |
|---------------------------|---|
| : Nuclease-Free Water | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| End Prep Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| End Prep Enzyme | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Ligation Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Ligation Enzyme | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Adapter for ILM | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Hyb Blocker | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Hyb Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Hyb Enhancer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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. |
| 2X Methyl Amplification | Promptly isolate the scene by removing all persons from the |

SECTION 5: Firefighting measures

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| Mastermix | vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Library Wash Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Hyb Wash Buffer 1 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Hyb Wash Buffer 2 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Soft Conversion Reagent B | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Soft Conversion Binding Beads | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| 5X Soft Conversion Wash Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Soft Conversion Elution Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Soft Conversion Repair Solution | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Library Binding Beads | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Capture Beads | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Avida Index Primer Pairs 1-96 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. |
| : Nuclease-Free Water | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| End Prep Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| End Prep Enzyme | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Ligation Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Ligation Enzyme | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Adapter for ILM | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Hyb Blocker | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Hyb Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Hyb Enhancer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Special protective equipment for fire-fighters

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| Soft Conversion Reagent A | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| 2X Methyl Amplification Mastermix | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Library Wash Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Hyb Wash Buffer 1 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Hyb Wash Buffer 2 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Soft Conversion Reagent B | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Soft Conversion Binding Beads | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| 5X Soft Conversion Wash Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Soft Conversion Elution Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Soft Conversion Repair Solution | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Library Binding Beads | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Capture Beads | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| 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

6.1 Personal precautions, protective equipment and emergency procedures

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| For non-emergency personnel | : Nuclease-Free Water | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | End Prep Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | End Prep Enzyme | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Ligation Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | Ligation Enzyme | No action shall be taken involving any personal risk or without |

SECTION 6: Accidental release measures

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| | suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| Adapter for ILM | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| Hyb Blocker | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| Hyb Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| Hyb Enhancer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| Soft Conversion Reagent A | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| 2X Methyl Amplification Mastermix | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| Library Wash Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| Hyb Wash Buffer 1 | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| Hyb Wash Buffer 2 | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| Soft Conversion Binding Beads | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep |

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| | unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour 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 spilt 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 spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| Soft Conversion Repair Solution | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| Library Binding Beads | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| Capture Beads | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| 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 spilt material. Put on appropriate personal protective equipment. |
| For emergency responders : Nuclease-Free Water | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| End Prep Buffer | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| End Prep Enzyme | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Ligation Buffer | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Ligation Enzyme | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Adapter for ILM | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Hyb Blocker | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and |

SECTION 6: Accidental release measures

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| | unsuitable materials. See also the information in "For non-emergency personnel". |
| Hyb Buffer | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Hyb Enhancer | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Soft Conversion Reagent A | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 2X Methyl Amplification Mastermix | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Library Wash Buffer | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Hyb Wash Buffer 1 | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Hyb Wash Buffer 2 | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Soft Conversion Reagent B | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Soft Conversion Binding Beads | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 5X Soft Conversion Wash Buffer | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Soft Conversion Elution Buffer | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Soft Conversion Repair Solution | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Library Binding Beads | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Capture Beads | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Avida Index Primer Pairs 1-96 for ILM | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

SECTION 6: Accidental release measures**6.2 Environmental precautions**

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| : Nuclease-Free Water | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| End Prep Buffer | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. |
| End Prep Enzyme | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Ligation Buffer | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Ligation Enzyme | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Adapter for ILM | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Hyb Blocker | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Hyb Buffer | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. |
| Hyb Enhancer | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Soft Conversion Reagent A | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| 2X Methyl Amplification Mastermix | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Library Wash Buffer | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Hyb Wash Buffer 1 | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Hyb Wash Buffer 2 | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Soft Conversion Reagent B | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

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| Soft Conversion Binding Beads | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |
| 5X Soft Conversion Wash Buffer | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Soft Conversion Elution Buffer | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Soft Conversion Repair Solution | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Library Binding Beads | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Capture Beads | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Avida Index Primer Pairs 1-96 for ILM | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

6.3 Methods and material for containment and cleaning up

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| 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. |

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| | Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Hyb Buffer | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Hyb Enhancer | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Soft Conversion Reagent A | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| 2X Methyl Amplification Mastermix | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Library Wash Buffer | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Hyb Wash Buffer 1 | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Hyb Wash Buffer 2 | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste 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. May be harmful to the environment if released. Dispose of spillages under controlled conditions. |
| 5X Soft Conversion Wash Buffer | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Soft Conversion Elution Buffer | Stop leak if without risk. 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. Move containers from spill area. Dispose of via a licensed waste disposal contractor. |
| Soft Conversion Repair Solution | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, |

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| | or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Library Binding Beads | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Capture Beads | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Avida Index Primer Pairs 1-96 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. |

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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| 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 vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| | End Prep Enzyme | Put on appropriate personal protective equipment (see Section 8). |
| | Ligation Buffer | Put on appropriate personal protective equipment (see Section 8). |
| | Ligation Enzyme | Put on appropriate personal protective equipment (see Section 8). |
| | Adapter for ILM | Put on appropriate personal protective equipment (see Section 8). |
| | Hyb Blocker | Put on appropriate personal protective equipment (see Section 8). |
| | Hyb Buffer | Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| | Hyb Enhancer | Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in |

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| | the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Soft Conversion Reagent A | 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 vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| 2X Methyl Amplification Mastermix | Put on appropriate personal protective equipment (see Section 8). |
| Library Wash Buffer | Put on appropriate personal protective equipment (see Section 8). |
| Hyb Wash Buffer 1 | Put on appropriate personal protective equipment (see Section 8). |
| Hyb Wash Buffer 2 | Put on appropriate personal protective equipment (see Section 8). |
| Soft Conversion Reagent B | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Soft Conversion Binding Beads | Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour 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 | Put on appropriate personal protective equipment (see Section 8). |
| Soft Conversion Elution Buffer | Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Soft Conversion Repair Solution | Put on appropriate personal protective equipment (see Section 8). |
| Library Binding Beads | Put on appropriate personal protective equipment (see Section 8). |
| Capture Beads | Put on appropriate personal protective equipment (see Section 8). |
| Avida Index Primer Pairs | Put on appropriate personal protective equipment (see |

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| Advice on general occupational hygiene | 1-96 for ILM | Section 8). |
| | : Nuclease-Free Water | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | End Prep Buffer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | End Prep Enzyme | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | Ligation Buffer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | Ligation Enzyme | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | Adapter for ILM | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | Hyb Blocker | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | Hyb Buffer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | Hyb Enhancer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | Soft Conversion Reagent A | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| 2X Methyl Amplification Mastermix | 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 | |

SECTION 7: Handling and storage

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|---------------------------------|--|
| Library Wash Buffer | 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. |
| Hyb Wash Buffer 1 | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Hyb Wash Buffer 2 | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Soft Conversion Reagent B | 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. |
| Soft Conversion Binding Beads | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| 5X Soft Conversion Wash Buffer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Soft Conversion Elution 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. |
| Soft Conversion Repair Solution | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Library Binding Beads | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Capture Beads | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Avida Index Primer Pairs | Eating, drinking and smoking should be prohibited in areas |

SECTION 7: Handling and storage

1-96 for ILM

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

7.2 Conditions for safe storage, including any incompatibilities

Storage

: Nuclease-Free Water

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

End Prep Buffer

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

End Prep Enzyme

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

Ligation Buffer

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

Ligation Enzyme

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

Adapter for ILM

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to

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| | prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Hyb Blocker | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Hyb Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Hyb Enhancer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Soft Conversion Reagent A | Store in accordance with local regulations. Store in 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| 2X Methyl Amplification Mastermix | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Library Wash Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

SECTION 7: Handling and storage

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|---------------------------------|--|
| Hyb Wash Buffer 1 | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Hyb Wash Buffer 2 | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Soft Conversion Reagent B | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Soft Conversion Binding Beads | 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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| 5X Soft Conversion Wash Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Soft Conversion Elution Buffer | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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 unlabelled 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- |

SECTION 7: Handling and storage

| | |
|---------------------------------------|---|
| Library Binding Beads | ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Capture Beads | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Avida Index Primer Pairs 1-96 for ILM | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

Seveso Directive - Reporting thresholds

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|--|---------------------------------|--------------------------|
| Hyb Buffer H3 | 50 tonne | 200 tonne |
| Soft Conversion Binding Beads P5c E1 | 5000 tonne 100 tonne | 50000 tonne 200 tonne |

7.3 Specific end use(s)

| | | |
|------------------------|--|---|
| Recommendations | : Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion | Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. |
|------------------------|--|---|

SECTION 7: Handling and storage

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|---|--|
| End Prep Enzyme Glycerol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist |
| Ligation Enzyme Glycerol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist |
| Hyb Enhancer Formamide | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 56 mg/m ³ 15 minutes. STEL: 30 ppm 15 minutes. TWA: 37 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. |
| Soft Conversion Binding Beads ethanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m ³ 8 hours. |

Biological exposure indices

No exposure indices known.

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

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|------|----------------------|------------------------|--------------------|----------|
| End Prep Buffer Magnesium chloride | DNEL | Long term Oral | 7 mg/kg bw/day | General population | Systemic |
| Hyb Buffer tetramethylammonium chloride | DNEL | Long term Oral | 0.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.4 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.76 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 2.9 mg/m ³ | Workers | Systemic |
| Hyb Enhancer Formamide | DNEL | Long term Dermal | 0.952 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 6.6 mg/m ³ | Workers | Systemic |
| Soft Conversion Reagent A tetrahydro-2-furyl-methanol | DNEL | Long term Oral | 0.175 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.25 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 0.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 1 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term | 1.4 mg/m ³ | Workers | Systemic |

SECTION 8: Exposure controls/personal protection

| | | | | | | |
|--|--------------------------|--------------------------|-----------------------------|------------------------|-----------------------|----------|
| Soft Conversion Binding Beads ethanol | | Inhalation | | | | |
| | DNEL | Long term Inhalation | 380 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Oral | 87 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Inhalation | 114 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Dermal | 206 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 343 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 950 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 1900 mg/ m ³ | Workers | Local | |
| | salts of thiocyanic acid | DNEL | Long term Oral | 0.155 mg/ kg bw/day | General population | Systemic |
| | | DNEL | Long term Dermal | 0.155 mg/ kg bw/day | General population | Systemic |
| DNEL | | Long term Inhalation | 0.27 mg/m ³ | General population | Systemic | |
| DNEL | | Long term Dermal | 0.31 mg/ kg bw/day | Workers | Systemic | |
| DNEL | | Long term Inhalation | 1.092 mg/ m ³ | Workers | Systemic | |
| DNEL | | Short term Inhalation | 3.28 mg/m ³ | Workers | Systemic | |

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

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.

SECTION 8: Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

| | | | |
|-----------------------|--------------------------|-------------------------|------------------|
| Physical state | : | Nuclease-Free Water | Liquid. |
| | | 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 | Liquid. |
| | | Reagent A | |
| | | 2X Methyl Amplification | Liquid. [Clear.] |
| | | Mastermix | |
| | | Library Wash Buffer | Liquid. |
| | | Hyb Wash Buffer 1 | Liquid. |
| | | Hyb Wash Buffer 2 | Liquid. |
| | | Soft Conversion | Liquid. |
| | | Reagent B | |
| | | Soft Conversion Binding | Liquid. |
| | | Beads | |
| | | 5X Soft Conversion | Liquid. |
| | | Wash Buffer | |
| | | Soft Conversion Elution | Liquid. |
| | | Buffer | |
| | | Soft Conversion Repair | Liquid. |
| | Solution | | |
| | Library Binding Beads | Liquid. | |
| | Capture Beads | Liquid. | |
| | Avida Index Primer Pairs | Liquid. | |
| | 1-96 for ILM | | |
| Colour | : | Nuclease-Free Water | Colourless. |
| | | 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 | Not available. |
| | | Reagent A | |
| | | 2X Methyl Amplification | Not available. |
| | | Mastermix | |
| | Library Wash Buffer | Not available. | |

SECTION 9: Physical and chemical properties

| | |
|--------------------------|----------------|
| Hyb Wash Buffer 1 | Not available. |
| Hyb Wash Buffer 2 | Not available. |
| Soft Conversion | Not available. |
| Reagent B | |
| Soft Conversion Binding | Not available. |
| Beads | |
| 5X Soft Conversion | Not available. |
| Wash 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 | |

Odour

| | |
|--------------------------|----------------|
| : Nuclease-Free Water | Odourless. |
| 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 | Not available. |
| Reagent A | |
| 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 | Not available. |
| Reagent B | |
| Soft Conversion Binding | Not available. |
| Beads | |
| 5X Soft Conversion | Not available. |
| Wash 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 | |

Odour threshold

| | |
|-------------------------|----------------|
| : Nuclease-Free Water | Not available. |
| End Prep Buffer | Not available. |
| End Prep Enzyme | Not available. |
| Ligation Buffer | Not available. |
| Ligation Enzyme | Not available. |
| Adapter for ILM | Not available. |
| Hyb Blocker | Not available. |
| Hyb Buffer | Not available. |
| Hyb Enhancer | Not available. |
| Soft Conversion | Not available. |
| Reagent A | |
| 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 | Not available. |

SECTION 9: Physical and chemical properties

| | | |
|--|---------------------------------------|----------------|
| | Reagent B | |
| | Soft Conversion Binding Beads | Not available. |
| | 5X Soft Conversion Wash Buffer | Not available. |
| | Soft Conversion Elution Buffer | Not available. |
| | Soft Conversion Repair Solution | Not available. |
| | Library Binding Beads | Not available. |
| | Capture Beads | Not available. |
| | Avida Index Primer Pairs 1-96 for ILM | Not available. |
| Melting point/freezing point | : Nuclease-Free Water | 0°C |
| | End Prep Buffer | Not available. |
| | End Prep Enzyme | Not available. |
| | Ligation Buffer | Not available. |
| | Ligation Enzyme | Not available. |
| | Adapter for ILM | 0°C |
| | Hyb Blocker | 0°C |
| | Hyb Buffer | Not available. |
| | Hyb Enhancer | Not available. |
| | Soft Conversion | <-120°C |
| | Reagent A | |
| | 2X Methyl Amplification Mastermix | Not available. |
| | Library Wash Buffer | Not available. |
| | Hyb Wash Buffer 1 | Not available. |
| | Hyb Wash Buffer 2 | 0°C |
| | Soft Conversion | Not available. |
| | Reagent B | |
| | Soft Conversion Binding Beads | Not available. |
| | 5X Soft Conversion Wash Buffer | 0°C |
| | Soft Conversion Elution Buffer | Not available. |
| | Soft Conversion Repair Solution | Not available. |
| | Library Binding Beads | Not available. |
| | Capture Beads | Not available. |
| | Avida Index Primer Pairs 1-96 for ILM | 0°C |
| Initial boiling point and boiling range | : Nuclease-Free Water | 100°C |
| | End Prep Buffer | Not available. |
| | End Prep Enzyme | Not available. |
| | Ligation Buffer | Not available. |
| | Ligation Enzyme | Not available. |
| | Adapter for ILM | 100°C |
| | Hyb Blocker | 100°C |
| | Hyb Buffer | Not available. |
| | Hyb Enhancer | Not available. |
| | Soft Conversion | 177.7°C |
| | Reagent A | |
| | 2X Methyl Amplification Mastermix | Not available. |
| | Library Wash Buffer | Not available. |
| | Hyb Wash Buffer 1 | Not available. |
| | Hyb Wash Buffer 2 | 100°C |
| | Soft Conversion | Not available. |
| | Reagent B | |
| | Soft Conversion Binding Beads | Not available. |

SECTION 9: Physical and chemical properties

5X Soft Conversion 100°C
 Wash Buffer
 Soft Conversion Elution Buffer Not available.
 Soft Conversion Repair Solution Not available.
 Library Binding Beads Not available.
 Capture Beads Not available.
 Avida Index Primer Pairs 1-96 for ILM 100°C

Flammability

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

Upper/lower flammability or explosive limits

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

SECTION 9: Physical and chemical properties

Flash point

- Buffer
- Soft Conversion Repair Solution Not available.
- Library Binding Beads Not available.
- Capture Beads Not available.
- Avida Index Primer Pairs 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 Closed cup: 73°C
- Reagent A
- 2X Methyl Amplification Mastermix Not available.
- Library Wash Buffer Not available.
- Hyb Wash Buffer 1 Not available.
- Hyb Wash Buffer 2 Not available.
- Soft Conversion Not available.
- Reagent B
- Soft Conversion Binding Beads Closed cup: 37.8 to 61°C
- 5X Soft Conversion Wash Buffer Not available.
- Soft Conversion Elution Buffer Not available.
- Soft Conversion Repair Solution Not available.
- Library Binding Beads Not available.
- Capture Beads Not available.
- Avida Index Primer Pairs 1-96 for ILM Not available.

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

SECTION 9: Physical and chemical properties

Auto-ignition temperature

| | | | | |
|--|------------|---|------------|---|
| Library Wash Buffer | | | | |
| Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated | 171 to 235 | - | 199 to 238 | - |
| Library Binding Beads | | | | |
| Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated | 171 to 235 | - | 199 to 238 | - |

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

| Ingredient name | °C | Method |
|--|------|----------------|
| End Prep Enzyme | | |
| glycerol | 370 | - |
| Ligation Buffer | | |
| Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated | 360 | - |
| Ligation Enzyme | | |
| glycerol | 370 | - |
| Hyb Enhancer | | |
| Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated | 360 | - |
| formamide | >500 | ASTM D 2155-66 |
| Soft Conversion Reagent A | | |
| tetrahydro-2-furyl-methanol | 282 | - |
| Library Wash Buffer | | |
| Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated | 360 | - |
| Soft Conversion Binding Beads | | |
| ethanol | 455 | DIN 51794 |
| Library Binding Beads | | |
| Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated | 360 | - |

SECTION 9: Physical and chemical properties

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

| | | | |
|-----------|---|---------------------------------------|----------------|
| 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 |
| | | Hyb Enhancer | Not available. |
| | | Soft Conversion | Not available. |
| | | Reagent A | |
| | | 2X Methyl Amplification Mastermix | 8.6 |
| | | 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 | 4.5 to 5.5 |
| | | Reagent B | |
| | | Soft Conversion Binding Beads | Not available. |
| | | 5X Soft Conversion Wash Buffer | Not available. |
| | | Soft Conversion Elution Buffer | 13 |
| | | Soft Conversion Repair Solution | 8 |
| | | Library Binding Beads | 8 |
| | | Capture Beads | Not available. |
| | | Avida Index Primer Pairs 1-96 for ILM | 8 |

SECTION 9: Physical and chemical properties

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

| | | | |
|------------------------|---|---|---------------|
| 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 |
| | | Soft Conversion Reagent B water | Soluble |
| | | Soft Conversion Binding Beads | Soluble |

SECTION 9: Physical and chemical properties

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

Partition coefficient: n-octanol/water :

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

Vapour pressure :

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

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|------------------------|-------------------------|---------|--------|-------------------------|---------|--------|
| | 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 | | | | | | |

SECTION 9: Physical and chemical properties

| | | | | | | |
|--|-------------|--------------|--------|--------|---------|---|
| 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 | 0.000000001 | 0.0000000013 | EU A.4 | - | - | - |
| 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 | | | | | | |

SECTION 9: Physical and chemical properties

| | | | | | | |
|--|----------|-----|---|--------|------|---|
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Soft Conversion Binding Beads | | | | | | |
| ethanol | 42.94865 | 5.7 | - | - | - | - |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| 5X Soft Conversion Wash Buffer | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Soft Conversion Elution Buffer | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Soft Conversion Repair Solution | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Library Binding Beads | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Capture Beads | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Avida Index Primer Pairs 1-96 for ILM | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |

Evaporation rate

- : Nuclease-Free Water Not available.
- End Prep Buffer Not available.
- End Prep Enzyme Not available.
- Ligation Buffer Not available.
- Ligation Enzyme Not available.
- Adapter for ILM Not available.
- Hyb Blocker Not available.
- Hyb Buffer Not available.
- Hyb Enhancer Not available.
- Soft Conversion Reagent A Not available.
- 2X Methyl Amplification Mastermix Not available.
- Library Wash Buffer Not available.
- Hyb Wash Buffer 1 Not available.
- Hyb Wash Buffer 2 Not available.
- Soft Conversion Reagent B Not available.
- Soft Conversion Binding Not available.

SECTION 9: Physical and chemical properties

| | | |
|-------------------------|---------------------------------------|----------------|
| | Beads | |
| | 5X Soft Conversion Wash Buffer | Not available. |
| | Soft Conversion Elution Buffer | Not available. |
| | Soft Conversion Repair Solution | Not available. |
| | Library Binding Beads | Not available. |
| | Capture Beads | Not available. |
| | Avida Index Primer Pairs 1-96 for ILM | Not available. |
| Relative density | : Nuclease-Free Water | 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 Mastermix | Not available. |
| | Library Wash Buffer | Not available. |
| | Hyb Wash Buffer 1 | Not available. |
| | Hyb Wash Buffer 2 | Not available. |
| | Soft Conversion Reagent B | Not available. |
| | Soft Conversion Binding Beads | Not available. |
| | 5X Soft Conversion Wash Buffer | Not available. |
| | Soft Conversion Elution Buffer | Not available. |
| | Soft Conversion Repair Solution | Not available. |
| | Library Binding Beads | Not available. |
| | Capture Beads | Not available. |
| | Avida Index Primer Pairs 1-96 for ILM | Not available. |
| Vapour 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 Mastermix | Not available. |
| | Library Wash Buffer | Not available. |
| | Hyb Wash Buffer 1 | Not available. |
| | Hyb Wash Buffer 2 | Not available. |
| | Soft Conversion Reagent B | Not available. |
| | Soft Conversion Binding Beads | Not available. |
| | 5X Soft Conversion Wash Buffer | Not available. |

SECTION 9: Physical and chemical properties

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

SECTION 9: Physical and chemical properties

| | |
|---------------------------------------|----------------|
| Solution | |
| Library Binding Beads | Not available. |
| Capture Beads | Not available. |
| Avida Index Primer Pairs 1-96 for ILM | Not available. |

Particle characteristics

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

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

| | | | |
|------------------------|---|---------------------------|--|
| 10.1 Reactivity | : | Nuclease-Free Water | No specific test data related to reactivity available for this product or its ingredients. |
| | | End Prep Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| | | End Prep Enzyme | No specific test data related to reactivity available for this product or its ingredients. |
| | | Ligation Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| | | Ligation Enzyme | No specific test data related to reactivity available for this product or its ingredients. |
| | | Adapter for ILM | No specific test data related to reactivity available for this product or its ingredients. |
| | | Hyb Blocker | No specific test data related to reactivity available for this product or its ingredients. |
| | | Hyb Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| | | Hyb Enhancer | No specific test data related to reactivity available for this product or its ingredients. |
| | | Soft Conversion Reagent A | No specific test data related to reactivity available for this product or its ingredients. |
| | | 2X Methyl Amplification | No specific test data related to reactivity available for this product or its ingredients. |

SECTION 10: Stability and reactivity

| | |
|---------------------------------------|--|
| Mastermix | product or its ingredients. |
| Library Wash Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| Hyb Wash Buffer 1 | No specific test data related to reactivity available for this product or its ingredients. |
| Hyb Wash Buffer 2 | No specific test data related to reactivity available for this product or its ingredients. |
| Soft Conversion Reagent B | No specific test data related to reactivity available for this product or its ingredients. |
| Soft Conversion Binding Beads | No specific test data related to reactivity available for this product or its ingredients. |
| 5X Soft Conversion Wash Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| Soft Conversion Elution Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| Soft Conversion Repair Solution | No specific test data related to reactivity available for this product or its ingredients. |
| Library Binding Beads | No specific test data related to reactivity available for this product or its ingredients. |
| Capture Beads | No specific test data related to reactivity available for this product or its ingredients. |
| Avida Index Primer Pairs 1-96 for ILM | No specific test data related to reactivity available for this product or its ingredients. |

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

| | |
|-----------------------|---|
| : Nuclease-Free Water | Under normal conditions of storage and use, hazardous reactions will not occur. |
| End Prep Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| End Prep Enzyme | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Ligation Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |

SECTION 10: Stability and reactivity

| | |
|---------------------------------------|---|
| Ligation Enzyme | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Adapter for ILM | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Hyb Blocker | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Hyb Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Hyb Enhancer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Soft Conversion Reagent A | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 2X Methyl Amplification Mastermix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Library Wash Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Hyb Wash Buffer 1 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Hyb Wash Buffer 2 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Soft Conversion Reagent B | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Soft Conversion Binding Beads | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 5X Soft Conversion Wash Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Soft Conversion Elution Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Soft Conversion Repair Solution | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Library Binding Beads | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Capture Beads | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Avida Index Primer Pairs 1-96 for ILM | Under normal conditions of storage and use, hazardous reactions will not occur. |

| | | | |
|---------------------------------|---|-----------------------------------|---|
| 10.4 Conditions to avoid | : | Nuclease-Free Water | No specific data. |
| | | End Prep Buffer | No specific data. |
| | | End Prep Enzyme | No specific data. |
| | | 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 | No specific data. |
| | | 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 | Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| | | 5X Soft Conversion Wash Buffer | No specific data. |
| | | Soft Conversion Elution Buffer | No specific data. |
| | | Soft Conversion Repair Solution | No specific data. |

SECTION 10: Stability and reactivity

| | |
|---------------------------------------|-------------------|
| Library Binding Beads | No specific data. |
| Capture Beads | No specific data. |
| Avida Index Primer Pairs 1-96 for ILM | No specific data. |

10.5 Incompatible materials

| | |
|---------------------------------------|---|
| : Nuclease-Free Water | May react or be incompatible with oxidising materials. |
| End Prep Buffer | May react or be incompatible with oxidising materials. |
| End Prep Enzyme | May react or be incompatible with oxidising materials. |
| Ligation Buffer | May react or be incompatible with oxidising materials. |
| Ligation Enzyme | May react or be incompatible with oxidising materials. |
| Adapter for ILM | May react or be incompatible with oxidising materials. |
| Hyb Blocker | May react or be incompatible with oxidising materials. |
| Hyb Buffer | May react or be incompatible with oxidising materials. |
| Hyb Enhancer | May react or be incompatible with oxidising materials. |
| Soft Conversion Reagent A | May react or be incompatible with oxidising materials. |
| 2X Methyl Amplification Mastermix | May react or be incompatible with oxidising materials. |
| Library Wash Buffer | May react or be incompatible with oxidising materials. |
| Hyb Wash Buffer 1 | May react or be incompatible with oxidising materials. |
| Hyb Wash Buffer 2 | May react or be incompatible with oxidising materials. |
| Soft Conversion Reagent B | May react or be incompatible with oxidising materials. |
| Soft Conversion Binding Beads | Reactive or incompatible with the following materials: oxidising materials |
| 5X Soft Conversion Wash Buffer | May react or be incompatible with oxidising materials. |
| Soft Conversion Elution Buffer | Reactive or incompatible with the following materials: acids |
| Soft Conversion Repair Solution | May react or be incompatible with oxidising materials. |
| Library Binding Beads | May react or be incompatible with oxidising materials. |
| Capture Beads | May react or be incompatible with oxidising materials. |
| Avida Index Primer Pairs 1-96 for ILM | May react or be incompatible with oxidising materials. |

10.6 Hazardous decomposition products

| | |
|-----------------------------------|--|
| : Nuclease-Free Water | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| End Prep Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| End Prep Enzyme | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Ligation Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Ligation Enzyme | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Adapter for ILM | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hyb Blocker | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hyb Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hyb Enhancer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Soft Conversion Reagent A | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| 2X Methyl Amplification Mastermix | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Library Wash Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hyb Wash Buffer 1 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 10: Stability and reactivity

| | |
|---------------------------------------|--|
| Hyb Wash Buffer 2 | decomposition products should not be produced. 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 1-96 for ILM | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|--|--------------------------|--------------------------|----------|
| End Prep Buffer Magnesium chloride | LD50 Dermal | Rat - Male, Female | >2000 mg/kg | - |
| | LD50 Oral | Rat | 2800 mg/kg | - |
| End Prep Enzyme Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Ligation Enzyme Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Hyb Buffer tetramethylammonium chloride | LD50 Dermal | Rabbit - Male, Female | 200 to 500 mg/kg | - |
| | LD50 Oral | Rat | 50 mg/kg | - |
| | Dextran sulfate sodium | Rat | 20600 mg/kg | - |
| | Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy- | Rat | 2800 mg/kg | - |
| Hyb Enhancer Formamide | LC50 Inhalation Dusts and mists | Rat - Male | >21 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17 g/kg | - |
| | LD50 Oral | Rat | 5570 mg/kg | - |
| Soft Conversion Binding Beads ethanol | LC50 Inhalation Vapour | Rat | 124700 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 7 g/kg | - |
| | salts of thiocyanic acid | Rat - Female | 3.181 mg/l | 4 hours |
| Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy- | LD50 Oral | Rat - Male, Female | 593 mg/kg | - |
| | LD50 Oral | Rat | 2800 mg/kg | - |

SECTION 11: Toxicological information

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| End Prep Buffer Magnesium chloride | 2800 | N/A | N/A | N/A | N/A |
| End Prep Enzyme Glycerol | 12600 | N/A | N/A | N/A | N/A |
| Ligation Enzyme Glycerol | 12600 | N/A | N/A | N/A | N/A |
| Hyb Buffer Hyb Buffer | 456.2 | 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.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | 500 | N/A | N/A | N/A | N/A |
| Hyb Enhancer Formamide | 5570 | 17000 | N/A | N/A | N/A |
| 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 |
| salts of thiocyanic acid | 593 | 1100 | N/A | N/A | 3.181 |
| Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | 500 | N/A | N/A | N/A | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|--------------------------|---------|-------|---------------------------|-------------|
| End Prep Enzyme Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| Ligation Enzyme Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| Hyb Buffer Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | Eyes - Severe irritant | Rabbit | - | 1 % | - |
| Soft Conversion Reagent A tetrahydro-2-furyl-methanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| Soft Conversion Binding Beads ethanol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 0.06666667 minutes 100 mg | - |

SECTION 11: Toxicological information

| | | | | | |
|---|--|------------------|--------|---------------|--------|
| Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl phenyl)]-.omega.-hydroxy- | Eyes - Moderate irritant Eyes - Severe irritant | Rabbit Rabbit | - - | 100 uL 1 % | - - |
|---|--|------------------|--------|---------------|--------|

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Not available.

| Information on likely routes of exposure | | |
|--|--|--|
| Nuclease-Free Water | Not available. | |
| End Prep Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| End Prep Enzyme | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Ligation Buffer | Not available. | |
| Ligation Enzyme | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Adapter for ILM | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Hyb Blocker | Not available. | |
| Hyb Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Hyb Enhancer | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Soft Conversion | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Reagent A | | |
| 2X Methyl Amplification Mastermix | Not available. | |
| Library Wash Buffer | Not available. | |
| Hyb Wash Buffer 1 | Not available. | |
| Hyb Wash Buffer 2 | Not available. | |
| Soft Conversion | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Reagent B | | |
| Soft Conversion Binding Beads | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| 5X Soft Conversion Wash Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Soft Conversion Elution Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |
| Soft Conversion Repair Solution | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. | |

SECTION 11: Toxicological information

| | |
|---------------------------------------|----------------|
| Library Binding Beads | Not available. |
| Capture Beads | Not available. |
| Avida Index Primer Pairs 1-96 for ILM | Not available. |

Potential acute health effects

Inhalation

| | |
|---|--|
| <ul style="list-style-type: none"> ☑ Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer | <ul style="list-style-type: none"> 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. |
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 tract. Causes burns. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |

Ingestion

| | |
|--|---|
| <ul style="list-style-type: none"> ☑ Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer | <ul style="list-style-type: none"> 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. |
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 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. |

SECTION 11: Toxicological information

| | | |
|---------------------|---------------------------------------|---|
| | Library Binding Beads | No known significant effects or critical hazards. |
| | Capture Beads | No known significant effects or critical hazards. |
| | Avida Index Primer Pairs 1-96 for ILM | No known significant effects or critical hazards. |
| Skin contact | : Nuclease-Free Water | No known significant effects or critical hazards. |
| | End Prep Buffer | No known significant effects or critical hazards. |
| | End Prep Enzyme | No known significant effects or critical hazards. |
| | Ligation Buffer | No known significant effects or critical hazards. |
| | Ligation Enzyme | No known significant effects or critical hazards. |
| | Adapter for ILM | No known significant effects or critical hazards. |
| | Hyb Blocker | No known significant effects or critical hazards. |
| | Hyb Buffer | Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. |
| | Hyb Enhancer | No known significant effects or critical hazards. |
| | Soft Conversion Reagent A | No known significant effects or critical hazards. |
| | 2X Methyl Amplification Mastermix | No known significant effects or critical hazards. |
| | Library Wash Buffer | 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. |
| | Soft Conversion Reagent B | No known significant effects or critical hazards. |
| | Soft Conversion Binding Beads | Causes severe burns. |
| | 5X Soft Conversion Wash Buffer | No known significant effects or critical hazards. |
| | Soft Conversion Elution Buffer | Causes severe burns. |
| | Soft Conversion Repair Solution | No known significant effects or critical hazards. |
| | Library Binding Beads | No known significant effects or critical hazards. |
| | Capture Beads | No known significant effects or critical hazards. |
| | Avida Index Primer Pairs 1-96 for ILM | No known significant effects or critical hazards. |
| 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 | No known significant effects or critical hazards. |
| | Ligation Buffer | No known significant effects or critical hazards. |
| | Ligation Enzyme | No known significant effects or critical hazards. |
| | Adapter for ILM | No known significant effects or critical hazards. |
| | Hyb Blocker | No known significant effects or critical hazards. |
| | Hyb Buffer | No known significant effects or critical hazards. |
| | Hyb Enhancer | No known significant effects or critical hazards. |
| | Soft Conversion Reagent A | Causes serious eye irritation. |
| | 2X Methyl Amplification Mastermix | No known significant effects or critical hazards. |
| | Library Wash Buffer | No known significant effects or critical hazards. |
| | Hyb Wash Buffer 1 | No known significant effects or critical hazards. |
| | Hyb Wash Buffer 2 | No known significant effects or critical hazards. |
| | Soft Conversion Reagent B | Causes serious eye irritation. |
| | Soft Conversion Binding Beads | Causes serious eye damage. |
| | 5X Soft Conversion Wash Buffer | No known significant effects or critical hazards. |
| | Soft Conversion Elution Buffer | Causes serious eye damage. |
| | Soft Conversion Repair Solution | No known significant effects or critical hazards. |
| | Library Binding Beads | No known significant effects or critical hazards. |
| | Capture Beads | No known significant effects or critical hazards. |
| | Avida Index Primer Pairs | No known significant effects or critical hazards. |

SECTION 11: Toxicological information

1-96 for ILM

Symptoms related to the physical, chemical and toxicological characteristics

| | | |
|-------------------|---------------------------------------|---|
| Inhalation | : Nuclease-Free Water | No specific data. |
| | End Prep Buffer | No specific data. |
| | End Prep Enzyme | No specific data. |
| | Ligation Buffer | No specific data. |
| | Ligation Enzyme | No specific data. |
| | Adapter for ILM | No specific data. |
| | Hyb Blocker | No specific data. |
| | Hyb Buffer | No specific data. |
| | Hyb Enhancer | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | Soft Conversion Reagent A | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | 2X Methyl Amplification Mastermix | No specific data. |
| | Library Wash Buffer | No specific data. |
| | Hyb Wash Buffer 1 | No specific data. |
| | Hyb Wash Buffer 2 | No specific data. |
| | Soft Conversion Reagent B | No specific data. |
| | Soft Conversion Binding Beads | Adverse symptoms may include the following: respiratory tract irritation coughing |
| | 5X Soft Conversion Wash Buffer | No specific data. |
| | Soft Conversion Elution Buffer | No specific data. |
| | Soft Conversion Repair Solution | No specific data. |
| | 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. |
| | End Prep Enzyme | No specific data. |
| | Ligation Buffer | No specific data. |
| | Ligation Enzyme | No specific data. |
| | Adapter for ILM | No specific data. |
| | Hyb Blocker | No specific data. |
| | Hyb Buffer | No specific data. |
| | Hyb Enhancer | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | Soft Conversion Reagent A | Adverse symptoms may include the following: reduced foetal weight increase in foetal 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 | No specific data. |

SECTION 11: Toxicological information

| | | |
|---------------------|---------------------------------------|---|
| | Reagent B | |
| | Soft Conversion Binding Beads | Adverse symptoms may include the following: stomach pains |
| | 5X Soft Conversion Wash Buffer | No specific data. |
| | Soft Conversion Elution Buffer | Adverse symptoms may include the following: stomach pains |
| | Soft Conversion Repair Solution | No specific data. |
| | Library Binding Beads | No specific data. |
| | Capture Beads | No specific data. |
| | Avida Index Primer Pairs 1-96 for ILM | No specific data. |
| Skin contact | : Nuclease-Free Water | No specific data. |
| | End Prep Buffer | No specific data. |
| | End Prep Enzyme | No specific data. |
| | Ligation Buffer | No specific data. |
| | Ligation Enzyme | No specific data. |
| | Adapter for ILM | No specific data. |
| | Hyb Blocker | No specific data. |
| | Hyb Buffer | Adverse symptoms may include the following: irritation redness |
| | Hyb Enhancer | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | Soft Conversion Reagent A | Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations |
| | 2X Methyl Amplification Mastermix | No specific data. |
| | Library Wash Buffer | No specific data. |
| | Hyb Wash Buffer 1 | No specific data. |
| | Hyb Wash Buffer 2 | No specific data. |
| | Soft Conversion Reagent B | No specific data. |
| | Soft Conversion Binding Beads | Adverse symptoms may include the following: pain or irritation redness blistering may occur |
| | 5X Soft Conversion Wash Buffer | No specific data. |
| | Soft Conversion Elution Buffer | Adverse symptoms may include the following: pain or irritation redness blistering may occur |
| | Soft Conversion Repair Solution | No specific data. |
| | Library Binding Beads | No specific data. |
| | Capture Beads | No specific data. |
| | Avida Index Primer Pairs 1-96 for ILM | No specific data. |

SECTION 11: Toxicological information

| | | |
|--------------------|---|---|
| Eye contact | : Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer | No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness |
| | Hyb Enhancer Soft Conversion Reagent A | No specific data. Adverse symptoms may include the following: pain or irritation watering redness |
| | 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B | No specific data. No specific data. No specific data. 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 Soft Conversion Elution Buffer | No specific data. Adverse symptoms may include the following: pain watering redness |
| | 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. |

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

SECTION 11: Toxicological information

| | | | |
|------------------------|---------------------------------------|---|--|
| General | : | Nuclease-Free Water | No known significant effects or critical hazards. |
| | | End Prep Buffer | No known significant effects or critical hazards. |
| | | End Prep Enzyme | No known significant effects or critical hazards. |
| | | Ligation Buffer | No known significant effects or critical hazards. |
| | | Ligation Enzyme | No known significant effects or critical hazards. |
| | | Adapter for ILM | No known significant effects or critical hazards. |
| | | Hyb Blocker | No known significant effects or critical hazards. |
| | | Hyb Buffer | No known significant effects or critical hazards. |
| | | Hyb Enhancer | May cause damage to organs through prolonged or repeated exposure. |
| | | Soft Conversion Reagent A | No known significant effects or critical hazards. |
| | | 2X Methyl Amplification Mastermix | No known significant effects or critical hazards. |
| | | Library Wash Buffer | 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. |
| | | 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 Buffer | No known significant effects or critical hazards. |
| | | Soft Conversion Repair Solution | No known significant effects or critical hazards. |
| | | Library Binding Beads | No known significant effects or critical hazards. |
| | Capture Beads | No known significant effects or critical hazards. | |
| | Avida Index Primer Pairs 1-96 for ILM | No known significant effects or critical hazards. | |
| Carcinogenicity | : | Nuclease-Free Water | No known significant effects or critical hazards. |
| | | End Prep Buffer | No known significant effects or critical hazards. |
| | | End Prep Enzyme | No known significant effects or critical hazards. |
| | | Ligation Buffer | No known significant effects or critical hazards. |
| | | Ligation Enzyme | No known significant effects or critical hazards. |
| | | Adapter for ILM | No known significant effects or critical hazards. |
| | | Hyb Blocker | No known significant effects or critical hazards. |
| | | Hyb Buffer | No known significant effects or critical hazards. |
| | | Hyb Enhancer | Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. |
| | | Soft Conversion Reagent A | No known significant effects or critical hazards. |
| | | 2X Methyl Amplification Mastermix | No known significant effects or critical hazards. |
| | | Library Wash Buffer | 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. |
| | | 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 Buffer | No known significant effects or critical hazards. |
| | | Soft Conversion Repair Solution | No known significant effects or critical hazards. |
| | | Library Binding Beads | No known significant effects or critical hazards. |
| | Capture Beads | No known significant effects or critical hazards. | |
| | Avida Index Primer Pairs 1-96 for ILM | No known significant effects or critical hazards. | |

SECTION 11: Toxicological information

| | | | |
|------------------------------|--------------------------|---|--|
| Mutagenicity | : | Nuclease-Free Water | No known significant effects or critical hazards. |
| | | End Prep Buffer | No known significant effects or critical hazards. |
| | | End Prep Enzyme | No known significant effects or critical hazards. |
| | | Ligation Buffer | No known significant effects or critical hazards. |
| | | Ligation Enzyme | No known significant effects or critical hazards. |
| | | Adapter for ILM | No known significant effects or critical hazards. |
| | | Hyb Blocker | No known significant effects or critical hazards. |
| | | Hyb Buffer | No known significant effects or critical hazards. |
| | | Hyb Enhancer | No known significant effects or critical hazards. |
| | | Soft Conversion | No known significant effects or critical hazards. |
| | | Reagent A | |
| | | 2X Methyl Amplification | No known significant effects or critical hazards. |
| | | 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. |
| | | Soft Conversion | No known significant effects or critical hazards. |
| | | Reagent B | |
| | | Soft Conversion Binding | No known significant effects or critical hazards. |
| | | Beads | |
| | | 5X Soft Conversion | No known significant effects or critical hazards. |
| | | Wash Buffer | |
| | | 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 | No known significant effects or critical hazards. | |
| | Capture Beads | No known significant effects or critical hazards. | |
| | Avida Index Primer Pairs | No known significant effects or critical hazards. | |
| | 1-96 for ILM | | |
| Reproductive toxicity | : | Nuclease-Free Water | No known significant effects or critical hazards. |
| | | End Prep Buffer | No known significant effects or critical hazards. |
| | | End Prep Enzyme | No known significant effects or critical hazards. |
| | | Ligation Buffer | No known significant effects or critical hazards. |
| | | Ligation Enzyme | No known significant effects or critical hazards. |
| | | Adapter for ILM | No known significant effects or critical hazards. |
| | | Hyb Blocker | No known significant effects or critical hazards. |
| | | Hyb Buffer | No known significant effects or critical hazards. |
| | | Hyb Enhancer | May damage fertility or the unborn child. |
| | | Soft Conversion | May damage fertility. May damage the unborn child. |
| | | Reagent A | |
| | | 2X Methyl Amplification | No known significant effects or critical hazards. |
| | | 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. |
| | | Soft Conversion | No known significant effects or critical hazards. |
| | | Reagent B | |
| | | Soft Conversion Binding | No known significant effects or critical hazards. |
| | | Beads | |
| | | 5X Soft Conversion | No known significant effects or critical hazards. |
| | | Wash Buffer | |
| | | 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 | No known significant effects or critical hazards. | |
| | Capture Beads | No known significant effects or critical hazards. | |
| | Avida Index Primer Pairs | No known significant effects or critical hazards. | |
| | 1-96 for ILM | | |

SECTION 11: Toxicological information

| | | |
|--------------------------|-------------------|--|
| Other information | : End Prep Buffer | Adverse symptoms may include the following: May cause skin sensitisation. |
| | Adapter for ILM | Adverse symptoms may include the following: May cause skin sensitisation. |
| | Hyb Enhancer | Adverse symptoms may include the following: May cause eye irritation. May cause skin irritation. |

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|------------------------------------|--|----------|
| End Prep Buffer Magnesium chloride | Acute EC50 >100 mg/l Fresh water | Algae - <i>Desmodesmus subspicatus</i> | 72 hours |
| | Acute EC50 180000 µg/l Fresh water | Crustaceans - Calanoid copepod - <i>Eudiaptomus padanus ssp. padanus</i> - Adult | 48 hours |
| | Acute IC50 6.8 mg/l Fresh water | Aquatic plants - Lesser Duckweed - <i>Lemna aequinoctialis</i> | 96 hours |
| | Acute LC50 32000 µg/l Fresh water | Daphnia - Water flea - <i>Daphnia hyalina</i> - Adult | 48 hours |
| | Acute LC50 2120 mg/l Fresh water | Fish - Fathead minnow - <i>Pimephales promelas</i> | 96 hours |
| | Acute NOEC 100 mg/l Fresh water | Algae - <i>Desmodesmus subspicatus</i> | 72 hours |
| | Chronic NOEC 0.1 mg/l Fresh water | Fish - common carp - <i>Cyprinus carpio</i> | 35 days |
| End Prep Enzyme Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Trout - <i>Oncorhynchus mykiss</i> | 96 hours |
| Ligation Enzyme Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Trout - <i>Oncorhynchus mykiss</i> | 96 hours |
| Hyb Buffer tetramethylammonium chloride Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy- | Acute LC50 462 mg/l Fresh water | Fish - Fathead minnow - <i>Pimephales promelas</i> | 96 hours |
| | Acute EC50 210 µg/l Fresh water | Algae - Green algae - <i>Selenastrum sp.</i> | 96 hours |
| | Acute LC50 10800 µg/l Marine water | Crustaceans - Aesop shrimp - <i>Pandalus montagui</i> - Adult | 48 hours |
| | Acute LC50 2.518 mg/l Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> | 48 hours |
| | Acute LC50 7200 µg/l Fresh water | Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> | 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-furyl-methanol | Acute EC50 >98.9 mg/l | Algae - Algae | 72 hours |
| | Acute EC50 >91.7 mg/l | Daphnia - Daphnia - <i>Daphnia magna</i> | 48 hours |
| | Acute LC50 >101 mg/l | Fish - Goldfish | 96 hours |

SECTION 12: Ecological information

| | | | |
|--|---------------------------------------|--|----------|
| Soft Conversion Binding Beads ethanol Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | Acute EC50 3306 mg/l Marine water | Algae - Green algae - <i>Ulva pertusa</i> | 96 hours |
| | Acute EC50 1074 mg/l Fresh water | Crustaceans - Ostracod - <i>Cypris subglobosa</i> | 48 hours |
| | Acute EC50 2 mg/l Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> | 48 hours |
| | Acute LC50 11000000 µg/l Marine water | Fish - Bleak - <i>Alburnus alburnus</i> | 96 hours |
| | Chronic NOEC 4.995 mg/l Marine water | Algae - Green algae - <i>Ulva pertusa</i> | 96 hours |
| | Chronic NOEC 100 µl/L Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate | 21 days |
| | Acute EC50 210 µg/l Fresh water | Algae - Green algae - <i>Selenastrum sp.</i> | 96 hours |
| | Acute LC50 10800 µg/l Marine water | Crustaceans - Aesop shrimp - <i>Pandalus montagui</i> - Adult | 48 hours |
| | Acute LC50 2.518 mg/l Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> | 48 hours |
| | Acute LC50 7200 µg/l Fresh water | Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> | 96 hours |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|--|---|---------------------------|------|----------|
| End Prep Enzyme Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| Ligation Enzyme Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| Hyb Enhancer Formamide | OECD 301A Ready Biodegradability - DOC Die-Away Test | 99 % - Readily - 28 days | - | - |
| Soft Conversion Reagent A tetrahydro-2-furyl-methanol | - | 92 % - Readily - 28 days | - | - |
| Soft Conversion Binding Beads salts of thiocyanic acid | OECD 302B Inherent Biodegradability: Zahn-Wellens/EMPA Test | 46 % - Inherent - 28 days | - | - |

Conclusion/Summary : Not available.

SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| Nuclease-Free Water water | - | - | Readily |
| Hyb Buffer tetramethylammonium chloride | - | - | Readily |
| Hyb Enhancer Formamide | - | - | Readily |
| Soft Conversion Reagent A tetrahydro-2-furyl-methanol | - | - | Readily |
| Soft Conversion Binding Beads ethanol | - | - | Readily |
| salts of thiocyanic acid | - | - | Inherent |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-------|-----------|
| Nuclease-Free Water water | -1.38 | - | Low |
| End Prep Enzyme Glycerol | -1.76 | - | Low |
| Ligation Enzyme Glycerol | -1.76 | - | Low |
| Hyb Buffer tetramethylammonium chloride | <-1.6 | - | Low |
| Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy- | 2.7 | 78.67 | Low |
| Hyb Enhancer Formamide | -0.82 | - | Low |
| Soft Conversion Reagent A tetrahydro-2-furyl-methanol | 0.722 | - | Low |
| Soft Conversion Binding Beads ethanol | -0.35 | 0.5 | Low |
| salts of thiocyanic acid | <-1.7 | - | Low |
| Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy- | 2.7 | 78.67 | Low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|------------------------------|-------------------------------|-----|-----|-----|-------------------------------|-----|-----|
| Nuclease-Free Water water | Not applicable (Inorganic) | N/A | N/A | N/A | Not applicable (Inorganic) | N/A | N/A |

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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




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

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : Dispose of material(s) and residues under controlled conditions. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA |
|--|--|--|--|
| 14.1 UN number | UN3316 | UN3316 | UN3316 |
| 14.2 UN proper shipping name | CHEMICAL KIT | CHEMICAL KIT | Chemical kit |
| 14.3 Transport hazard class(es) | 9  | 9  | 9  |
| 14.4 Packing group | II | II | II |
| 14.5 Environmental hazards | No. | No. | No. |

Additional information

Remarks: Excepted Quantity

ADR/RID : **Hazard identification number** 90
Limited quantity See SP 251
Special provisions 251, 340, 671
Tunnel code (E)

IMDG : **Emergency schedules** F-A, _S-P_
Special provisions 251, 340

SECTION 14: Transport information

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.
Special provisions A44, A163

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

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

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

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

SECTION 15: Regulatory information

| Product / Ingredient name | Identifiers | Status |
|--|-------------|---------|
| End Prep Buffer End Prep Buffer | | 3 |
| Hyb Buffer Hyb Buffer | | 3 |
| Hyb Enhancer Hyb Enhancer | | 3 |
| Formamide | | 30 |
| Soft Conversion Reagent A Soft Conversion Reagent A | | 3 |
| tetrahydro-2-furyl-methanol | | 30 |
| Soft Conversion Reagent B Soft Conversion Reagent B ammonium hydrogensulphite | | 3 65 |
| Soft Conversion Binding Beads Soft Conversion Binding Beads | | 3 |
| Soft Conversion Elution Buffer Soft Conversion Elution Buffer | | 3 |

| | | |
|--------------|--------------------------------|-----------------------------------|
| Label | : Nuclease-Free Water | Not applicable. |
| | End Prep Buffer | Not applicable. |
| | End Prep Enzyme | Not applicable. |
| | Ligation Buffer | Not applicable. |
| | Ligation Enzyme | Not applicable. |
| | Adapter for ILM | Not applicable. |
| | Hyb Blocker | Not applicable. |
| | Hyb Buffer | Not applicable. |
| | Hyb Enhancer | Restricted to professional users. |
| | Soft Conversion Reagent A | Restricted to professional users. |
| | 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 Buffer | Not applicable. |
| | Soft Conversion Repair | Not applicable. |
| | Solution | |
| | Library Binding Beads | Not applicable. |
| | Capture Beads | Not applicable. |
| | Avida Index Primer Pairs 1-96 | Not applicable. |
| | for ILM | |

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria

SECTION 15: Regulatory information

Category

Hyb Buffer

H3

Soft Conversion Binding Beads

P5c

E1

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : Not determined.

SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

SECTION 16: Other information

| Classification | Justification |
|---|---|
| End Prep Buffer Aquatic Chronic 3, H412 | Calculation method |
| Hyb Buffer Acute Tox. 4, H302 Skin Irrit. 2, H315 STOT SE 1, H370 Aquatic Chronic 3, H412 | Calculation method Calculation method Calculation method Calculation method |
| Hyb Enhancer Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 | Calculation method Calculation method Calculation method |
| Soft Conversion Reagent A Eye Irrit. 2, H319 Repr. 1B, H360FD | Calculation method Calculation method |
| Soft Conversion Reagent B Eye Irrit. 2, H319 | Calculation method |
| Soft Conversion Binding Beads Flam. Liq. 3, H226 Skin Corr. 1C, H314 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 | On basis of test data Calculation method Calculation method Calculation method |
| Soft Conversion Elution Buffer Skin Corr. 1, H314 | On basis of test data |

Full text of abbreviated H statements

| | |
|----------------------------------|--|
| End Prep Buffer | |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Hyb Buffer | |
| H300 | Fatal if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H370 | Causes damage to organs. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Hyb Enhancer | |
| H351 | Suspected of causing cancer. |
| H360 | May damage fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| Soft Conversion Reagent A | |
| H319 | Causes serious eye irritation. |
| H360FD | May damage fertility. May damage the unborn child. |
| Soft | |

SECTION 16: Other information

Conversion

Reagent B

H319 Causes serious eye irritation.
EUH031 Contact with acids liberates toxic gas.

Soft

Conversion

Binding Beads

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH032 Contact with acids liberates very toxic gas.
EUH071 Corrosive to the respiratory tract.

Soft

Conversion

Elution Buffer

H314 Causes severe skin burns and eye damage.

[Full text of classifications](#)

End Prep Buffer

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

Hyb Buffer

Acute Tox. 2 ACUTE TOXICITY - Category 2
Acute Tox. 3 ACUTE TOXICITY - Category 3
Acute Tox. 4 ACUTE TOXICITY - Category 4
Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2
STOT SE 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Hyb Enhancer

Carc. 2 CARCINOGENICITY - Category 2
Repr. 1B REPRODUCTIVE TOXICITY - Category 1B
STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Soft Conversion

Reagent A

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 1B REPRODUCTIVE TOXICITY - Category 1B

Soft Conversion

Reagent B

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Soft Conversion

SECTION 16: Other information

Binding Beads

| | |
|-------------------|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |

Soft Conversion

Elution Buffer

| | |
|--------------|--|
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
|--------------|--|

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