# **SAFETY DATA SHEET**



Avida DNA Reagent Kit with 1-16 Index Primer Pairs for ILM, 16 Reactions, Part Number G9409A

### **Section 1. Identification**

#### 1.1 Product identifier

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

Number G9409A

Part no. (chemical kit)

Part no.

: G9409A

: Avida DNA and Duo Reagent Box 2, 16 5282-0141

reactions

Nuclease-Free Water 5271-0107 Library Wash Buffer 5271-0103 Hvb Wash Buffer 1 5271-0104 Hyb Wash Buffer 2 5271-0105 Resuspension Buffer 5271-0106 Avida DNA Reagent Box 1, 16 Reactions 5282-0139 End Prep Buffer 5271-0094 End Prep Enzyme 5271-0095 Ligation Buffer 5271-0096 Ligation Enzyme 5271-0097 Adapter for ILM 5271-0112 Hyb Blocker 5271-0099 Hvb Buffer 5271-0100 Hyb Enhancer 5271-0101 2X Amplification Mastermix 5271-0102 Avida Beads Box, 16 Reactions 5282-0143 Library Binding Beads 5271-0108 Capture Beads 5271-0109 Avida Index Primer Pairs 1-16 for ILM 5280-0052 Index Primer Mix for ILM 1-8 5274-0075 Index Primer Mix for ILM 9-16 5274-0076

Validation date : 4/11/2024

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

Identified uses : Analytical reagent.

For research use only.

Nuclease-Free Water 0.88 ml (16 reactions) Library Wash Buffer 6.336 ml (16 reactions) Hvb Wash Buffer 1 2 x 5.280 ml (16 reactions) Hyb Wash Buffer 2 2 x 2.64 ml (16 reactions) Resuspension Buffer 0.352 ml (16 reactions) End Prep Buffer 0.124 ml (16 reactions) End Prep Enzyme 0.053 ml (16 reactions) Ligation Buffer 0.44 ml (16 reactions) Ligation Enzyme 0.106 ml (16 reactions) 0.088 ml (16 reactions) Adapter for ILM Hvb Blocker 0.044 ml (16 reactions) Hyb Buffer 0.81 ml (16 reactions) Hyb Enhancer 0.132 ml (16 reactions) 2X Amplification Mastermix 0.44 ml (16 reactions) Library Binding Beads 1.532 ml (16 reactions) Capture Beads 0.141 ml (16 reactions)

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

**Uses advised against**: Not for use in diagnostic procedures.

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

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### **Section 1. Identification**

Supplier/Manufacturer

: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770

1.4 Emergency telephone number

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

### Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : Nuclease-Free Water

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

and other users of this product.

Library Wash Buffer While this material is not considered hazardous by the

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

and other users of this product.

Hyb Wash Buffer 1 While this material is not considered hazardous by the

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

and other users of this product.

Hyb Wash Buffer 2 While this material is not considered hazardous by the

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

and other users of this product.

Resuspension Buffer While this material is not considered hazardous by the

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

and other users of this product.

End Prep Buffer This material is considered hazardous by the OSHA

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

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

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

and other users of this product.

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

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

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

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End Prep Enzyme

Ligation Buffer

Adapter for ILM

and other users of this product.

Hyb Blocker While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

This SDS should be retained and available for employees

and other users of this product.

Hyb Buffer This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Hyb Enhancer This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

2X Amplification Mastermix While this material is not considered hazardous by the

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

and other users of this product.

Library Binding Beads While this material is not considered hazardous by the

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

and other users of this product.

Capture Beads While this material is not considered hazardous by the

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

and other users of this product.

Index Primer Mix for ILM 1-8 While this material is not considered hazardous by the

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

and other users of this product.

Index Primer Mix for ILM

9-16

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

and other users of this product.

#### Classification of the substance or mixture

**End Prep Buffer** 

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

**End Prep Enzyme** 

H320 EYE IRRITATION - Category 2B

**Ligation Enzyme** 

H320 EYE IRRITATION - Category 2B

**Hyb Buffer** 

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

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

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

**Hyb Enhancer** 

H351 CARCINOGENICITY - Category 2

H360 TOXIC TO REPRODUCTION - Category 1B

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

Ingredients of unknown

toxicity

: Hyb Buffer

Percentage of the mixture consisting of ingredient

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

Hyb Buffer Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

3.4%

2.2 GHS label elements

**Hazard pictograms** 

: Hyb Buffer





Hyb Enhancer



No signal word.

No signal word.

Signal word

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme **Ligation Buffer** 

Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer

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

**Hazard statements** 

No signal word. No signal word. No signal word. No signal word. Warning No signal word. Warning No signal word. No signal word. Danger Danger 2X Amplification Mastermix No signal word. Library Binding Beads No signal word. No signal word. No signal word.

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

No signal word.

End Prep Enzyme H320 - Causes eye irritation.

Ligation Buffer No known significant effects or critical hazards.

Ligation Enzyme H320 - Causes eye irritation.

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

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

H370 - Causes damage to organs. (central nervous

system (CNS))

H412 - Harmful to aquatic life with long lasting

effects.

H351 - Suspected of causing cancer. Hyb Enhancer

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

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2X Amplification Mastermix Library Binding Beads

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

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

#### **Precautionary statements**

**Prevention** 

Nuclease-Free Water
 Library Wash Buffer
 Hyb Wash Buffer 1
 Hyb Wash Buffer 2
 Resuspension Buffer
 Not applicable.
 Not applicable.
 Not applicable.

End Prep Buffer P273 - Avoid release to the environment.

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

Hyb Buffer P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

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

product.

P264 - Wash thoroughly after handling.

Hyb Enhancer P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing

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

2X Amplification Mastermix
Library Binding Beads
Capture Beads
Not applicable.
Not applicable.
Not applicable.

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

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Hyb Wash Buffer 1 Not applicable.
Hyb Wash Buffer 2 Not applicable.
Resuspension Buffer Not applicable.
End Prep Buffer Not applicable.

End Prep Enzyme P305 + P351 + P338 - IF IN EYES: Rinse

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

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Ligation Buffer Not applicable.

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

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

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Adapter for ILM Not applicable. Hyb Blocker Not applicable.

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

CENTER or doctor.

P362 + P364 - Take off contaminated clothing and

wash it before reuse.

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

water.

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

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		medical advice or attention.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM 1-8	Not applicable.
	Index Primer Mix for ILM 9-16	Not applicable.
Storage :	Nuclease-Free Water	Not applicable.
Storage .		···
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	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.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM 1-8	Not applicable.
	Index Primer Mix for ILM 9-16	Not applicable.
Disposal :	Nuclease-Free Water	Not applicable.
-	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	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.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Index Primer Mix for ILM 1-8	Not applicable.
	Index Primer Mix for ILM 9-16	Not applicable.
Supplemental label	Nuclease-Free Water	None known.
Supplemental label :		
elements	Library Wash Buffer	None known.
	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2	None known.
	Resuspension Buffer	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.

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Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

None known.

None known.

None known.

None known.

None known.

#### 2.3 Other hazards

Hazards not otherwise classified

Nuclease-Free Water None known. Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. Resuspension Buffer 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. 2X Amplification Mastermix None known. Library Binding Beads None known. Capture Beads None known. Index Primer Mix for ILM 1-8 None known. Index Primer Mix for ILM 9-16 None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Nuclease-Free Water Substance Library Wash Buffer Mixture Hyb Wash Buffer 1 Mixture Hyb Wash Buffer 2 Mixture Resuspension Buffer Mixture **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 2X Amplification Mastermix Mixture Library Binding Beads Mixture Capture Beads Mixture Index Primer Mix for ILM 1-8 Mixture Index Primer Mix for ILM 9-16 Mixture

Ingredient name	%	CAS number
Nuclease-Free Water		
water	100	7732-18-5
Hyb Wash Buffer 1		
nyb wasii builei i		
Sodium dodecyl sulphate	≤0.3	151-21-3
Hall West Buffers		
Hyb Wash Buffer 2		

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# Section 3. Composition/information on ingredients

Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	<0.1	9036-19-5
End Prep Buffer		
Magnesium chloride	<2.5	7786-30-3
End Prep Enzyme		
Glycerol	≥50 - ≤75	56-81-5
Ligation Enzyme		
Glycerol	≥50 - ≤75	56-81-5
Hyb Buffer		
tetramethylammonium chloride	≥10 - <15	75-57-0
Dextran sulfate sodium	≤3	9011-18-1
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	<0.1	9036-19-5
Hyb Enhancer		
Formamide	≥90	75-12-7
2X Amplification Mastermix		
Glycerol	<10	56-81-5

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

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

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

# Section 4. First aid measures

4.1	Description of	necessary	first aid	measures

Eye contact	: Nuclease-Free Water	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	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.

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Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Resuspension 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 Buffer Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

End Prep Enzyme Immediately flush eyes with plenty of water,

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

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

medical attention if irritation occurs.

Ligation Enzyme Immediately flush eyes with plenty of water,

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

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

medical attention if irritation occurs.

Hyb Blocker Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Hyb Buffer Immediately flush eyes with plenty of water,

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

center or physician.

Hyb Enhancer Immediately flush eyes with plenty of water,

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

medical attention.

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

medical attention if irritation occurs.

Library Binding Beads Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Capture Beads Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Index Primer Mix for ILM 1-8 Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

Index Primer Mix for ILM 9-16 Immediately flush eyes with plenty of water,

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Inhalation

: Nuclease-Free Water

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

**End Prep Buffer** 

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

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

medical attention if irritation occurs.

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

attention if symptoms occur.

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

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

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

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a

position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

Remove victim to fresh air and keep at rest in a

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

collar, tie, belt or waistband.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms

may be delayed. The exposed person may need to be kept under medical surveillance for 48

hours.

Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

collar, tie, belt or waistband.

Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

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

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Skin contact

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.

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

position comfortable for breathing. Get medical

attention if symptoms occur.

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.

Index Primer Mix for ILM 1-8 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Index Primer Mix for ILM 9-16 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

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

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

medical attention if symptoms occur.

Resuspension Buffer Flush contaminated skin with plenty of water.

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

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Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

End Prep Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

End Prep Enzyme Flush contaminated skin with plenty of water.

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

before reuse.

Ligation Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Ligation Enzyme Flush contaminated skin with plenty of water.

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

before reuse.

Adapter for ILM Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hyb Blocker Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hyb Buffer Flush contaminated skin with plenty of water.

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

Clean shoes thoroughly before reuse.

Hyb Enhancer Flush contaminated skin with plenty of water.

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

before reuse.

2X Amplification Mastermix 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.

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

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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.

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

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Hyb Wash Buffer 1

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

give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

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

occur.

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

occur.

occur.

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

personnel.

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

Wash out mouth with water. 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

Resuspension Buffer

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

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Adapter for ILM

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

Hyb Blocker

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

Hyb Buffer

Hyb Enhancer

Wash out mouth with water. Remove dentures if

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

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

2X 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.

Capture Beads

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give amall quantities of water to driple. Do not

give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Index Primer Mix for ILM 1-8

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

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Index Primer Mix for ILM 9-16

give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

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

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

**Eye contact** 

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme **Ligation Buffer** Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads

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

**Inhalation** 

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer
2X Amplification Mastermix
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16

**Skin contact** 

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme No known significant effects or critical hazards. Causes eye irritation.

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

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards.

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Adapter for ILM

Hyb Blocker

Hyb Buffer

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

irritation.

Hyb Enhancer No known significant effects or critical hazards. 2X Amplification Mastermix 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. Index Primer Mix for ILM 1-8 No known significant effects or critical hazards.

Index Primer Mix for ILM 9-16

No known significant effects or critical hazards.

: Nuclease-Free Water
Library Wash Buffer
No known significant effects or critical hazards.
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. Resuspension Buffer 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.

No known significant effects or critical hazards.

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 Harmful if swallowed. Causes damage to organs

following a single exposure if swallowed.

Hyb Enhancer

No known significant effects or critical hazards.

2X Amplification Mastermix
Library Binding Beads

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Capture Beads

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Index Primer Mix for ILM 9-16

No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Ingestion

Eye contact : Nuclease-Free Water No specific data.
Library Wash Buffer No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. End Prep Buffer No specific data.

End Prep Enzyme Adverse symptoms may include the following:

irritation watering redness

Ligation Buffer No specific data.

Ligation Enzyme Adverse symptoms may include the following:

irritation watering redness

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

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

Capture Beads

No specific data.

No specific data.

No specific data.

No specific data.

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

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: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. End Prep Buffer No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. No specific data. Ligation Enzyme No specific data. Adapter for ILM Hyb Blocker No specific data. Hvb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix No specific data. Library Binding Beads No specific data. Capture Beads No specific data. Index Primer Mix for ILM 1-8 No specific data. Index Primer Mix for ILM 9-16 No specific data.

#### **Skin contact**

Nuclease-Free Water No specific data. Library Wash Buffer No specific data. No specific data. Hyb Wash Buffer 1 Hyb Wash Buffer 2 No specific data. Resuspension Buffer 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

Adverse symptoms may include the following: Hyb Enhancer

reduced fetal weight increase in fetal deaths skeletal malformations

No specific data.

No specific data. No specific data.

2X Amplification Mastermix No specific data. Library Binding Beads No specific data. Capture Beads No specific data. No specific data. Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16 No specific data. No specific data. Nuclease-Free Water No specific data. Library Wash Buffer

Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer** End Prep Enzyme Ligation Buffer

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

Adverse symptoms may include the following: Hyb Enhancer

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

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2X Amplification Mastermix
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
No specific data.
No specific data.
No specific data.
No specific data.

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

Notes to physician : N

: Nuclease-Free Water 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.

Resuspension Buffer 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.

2X Amplification Mastermix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

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.

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Index Primer Mix for ILM 1-8 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Index Primer Mix for ILM 9-16 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

**Specific treatments** 

: Nuclease-Free Water No specific treatment. No specific treatment. Library Wash Buffer Hvb Wash Buffer 1 No specific treatment. Hyb Wash Buffer 2 No specific treatment. No specific treatment. Resuspension Buffer 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. Hvb Buffer No specific treatment. Hvb Enhancer No specific treatment. 2X Amplification Mastermix No specific treatment.

2X Amplification Mastermix

Library Binding Beads

Capture Beads

No specific treatment.

No specific treatment.

No specific treatment.

Index Primer Mix for ILM 1-8

No specific treatment.

No specific treatment.

No specific treatment.

**Protection of first-aiders** 

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

or without suitable training.

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.

Resuspension Buffer No action shall be taken involving any personal risk

or without suitable training.

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

or without suitable training.

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

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

resuscitation.

Ligation Buffer No action shall be taken involving any personal risk

or without suitable training.

Ligation Enzyme No action shall be taken involving any personal risk

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

resuscitation.

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

or without suitable training.

Hyb Blocker No action shall be taken involving any personal risk

or without suitable training.

Hyb Buffer No action shall be taken involving any personal risk

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

resuscitation.

Hyb Enhancer No action shall be taken involving any personal risk

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

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Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

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.

Index Primer Mix for ILM 1-8

No action shall be taken involving any personal risk

or without suitable training.

Index Primer Mix for ILM 9-16 No action shall be taken involving any personal risk

or without suitable training.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

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

surrounding fire.

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.

Resuspension Buffer 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.

2X Amplification Mastermix Use an extinguishing agent suitable for the

surrounding fire.

Library Binding Beads

Use an extinguishing agent suitable for the

surrounding fire.

Capture Beads Use an extinguishing agent suitable for the

surrounding fire.

Index Primer Mix for ILM 1-8

Use an extinguishing agent suitable for the

surrounding fire.

Index Primer Mix for ILM 9-16 Use an extinguishing agent suitable for the

surrounding fire.

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**Unsuitable extinguishing** media

Nuclease-Free Water None known. Library Wash Buffer None known. Hyb Wash Buffer 1 None known. None known. Hyb Wash Buffer 2 Resuspension Buffer 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. 2X Amplification Mastermix None known. Library Binding Beads None known. Capture Beads None known. Index Primer Mix for ILM 1-8 None known. Index Primer Mix for ILM 9-16 None known.

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

Specific hazards arising from the chemical

: Nuclease-Free Water

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

**End Prep Buffer** 

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

Capture Beads

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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

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

any waterway, sewer or drain.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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

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

any waterway, sewer or drain.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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

and the container may burst.

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Index Primer Mix for ILM 1-8 In a fire or if heated, a pressure increase will occur

and the container may burst.

Index Primer Mix for ILM 9-16 In a fire or if heated, a pressure increase will occur

and the container may burst.

**Hazardous thermal** decomposition products : Nuclease-Free Water

No specific data. Library Wash Buffer Decomposition products may include the following

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

Hyb Wash Buffer 1 Decomposition products may include the following

materials:

halogenated compounds metal oxide/oxides No specific data.

Hyb Wash Buffer 2 Resuspension Buffer 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

Decomposition products may include the following Ligation Enzyme

> materials: carbon dioxide carbon monoxide No specific data.

Adapter for ILM Hyb Blocker No specific data. Hyb Buffer

Decomposition products may include the following

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

Hyb Enhancer Decomposition products may include the following

> materials: carbon dioxide carbon monoxide nitrogen oxides

Decomposition products may include the following 2X Amplification Mastermix

> materials: carbon dioxide carbon monoxide

Decomposition products may include the following Library Binding Beads

materials:

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carbon dioxide carbon monoxide halogenated compounds

halogenated compounds metal oxide/oxides

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

#### 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.

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.

Resuspension 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 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

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action shall be taken involving any personal risk or

without suitable training.

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

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

without suitable training.

Library 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.

Promptly isolate the scene by removing all persons Index Primer Mix for ILM 1-8

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

without suitable training.

Index Primer Mix for ILM 9-16 Promptly isolate the scene by removing all persons

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

without suitable training.

**Special protective** equipment for fire-fighters

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

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

pressure mode.

Fire-fighters should wear appropriate protective Library Wash Buffer

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.

Resuspension Buffer Fire-fighters should wear appropriate protective

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

pressure mode.

Fire-fighters should wear appropriate protective **End Prep Buffer** 

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

pressure mode.

Fire-fighters should wear appropriate protective End Prep Enzyme

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

pressure mode.

Fire-fighters should wear appropriate protective Ligation Buffer

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

pressure mode.

Fire-fighters should wear appropriate protective Ligation Enzyme

> 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

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(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.

2X 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 Binding Beads Fire-fighters should wear appropriate protective

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

pressure mode.

Capture Beads Fire-fighters should wear appropriate protective

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

pressure mode.

Index Primer Mix for ILM 1-8 Fire-fighters should wear appropriate protective

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

pressure mode.

Index Primer Mix for ILM 9-16 Fire-fighters should wear appropriate protective

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

pressure mode.

# Section 6. Accidental release measures

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

For non-emergency personnel

: Nuclease-Free Water

Library Wash Buffer

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

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

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

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

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

Hyb Wash Buffer 2

Hyb Wash Buffer 1

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Resuspension Buffer

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

touch or walk through spilled material. Put on

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

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

personal protective equipment.

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

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

personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

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

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

personal protective equipment.

No action shall be taken involving any personal

End Prep Enzyme

**End Prep Buffer** 

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

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

risk or without suitable training. Evacuate

personal protective equipment.

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

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

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

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

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

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

spillage, take note of any information in Section 8

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

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

If specialized clothing is required to deal with the spillage, take note of any information in Section 8

2X Amplification Mastermix

**Library Binding Beads** 

Capture Beads

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

For emergency responders: Nuclease-Free Water

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

**End Prep Buffer** 

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End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

**6.2 Environmental** 

precautions

Library Wash Buffer

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

: Nuclease-Free Water

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

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

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waterways, soil or air).

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

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

caused environmental pollution (sewers,

waterways, soil or air).

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

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

caused environmental pollution (sewers,

waterways, soil or air).

Resuspension Buffer Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

End Prep Buffer Avoid dispersal of spilled material and runoff and

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

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

large quantities.

End Prep Enzyme Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Ligation Buffer Avoid dispersal of spilled material and runoff and

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

waterways, soil or air).

Ligation Enzyme Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Adapter for ILM Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Hyb Blocker Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Hyb Buffer Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

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

large quantities.

Hyb Enhancer Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

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2X Amplification Mastermix Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Library Binding Beads Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Capture Beads Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Index Primer Mix for ILM 1-8 Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

Index Primer Mix for ILM 9-16 Avoid dispersal of spilled material and runoff and

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

caused environmental pollution (sewers,

waterways, soil or air).

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

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

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

disposal contractor.

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.

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

area. Dilute with water and mop up if water-soluble.

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disposal contractor.

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

Alternatively, or if water-insoluble, absorb with an

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

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.

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

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

disposal contractor.

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

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

disposal contractor.

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

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

disposal contractor.

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

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 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 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.

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

disposal contractor.

Index Primer Mix for ILM 1-8 Stop leak if without risk. Move containers from spill

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

disposal contractor.

Index Primer Mix for ILM 9-16 Stop leak if without risk. Move containers from spill

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

disposal contractor.

# Section 7. Handling and storage

#### 7.1 Precautions for safe handling

**Protective measures** : Nuclease-Free Water

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).

Put on appropriate personal protective equipment Hyb Wash Buffer 2

(see Section 8).

Resuspension Buffer Put on appropriate personal protective equipment

(see Section 8).

End Prep Buffer Put on appropriate personal protective equipment

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

reuse container.

End Prep Enzyme Put on appropriate personal protective equipment

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

not reuse container.

Ligation Buffer Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment Ligation Enzyme

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

not reuse container.

Put on appropriate personal protective equipment Adapter for ILM

(see Section 8).

Hyb Blocker Put on appropriate personal protective equipment

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Hyb Buffer

(see Section 8).

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

pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

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

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

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

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

Eating, drinking and smoking should be prohibited

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

Eating, drinking and smoking should be prohibited

in areas where this material is handled, stored and processed. Workers should wash hands and face

Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

Advice on general occupational hygiene

: Nuclease-Free Water

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

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Resuspension Buffer

**End Prep Buffer** 

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

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

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Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

7.2 Conditions for safe storage, including any incompatibilities

: Nuclease-Free Water

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

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

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Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

**End Prep Buffer** 

End Prep Enzyme

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

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# Section 7. Handling and storage

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

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

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

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# Section 7. Handling and storage

2X Amplification Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

to prevent leakage. Do not store in unlabeled

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containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

Recommendations

Nuclease-Free Water 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. Industrial applications, Professional applications. Resuspension Buffer End Prep Buffer Industrial applications, Professional applications. Industrial applications, Professional applications. End Prep Enzyme Industrial applications, Professional applications. Ligation Buffer Ligation Enzyme Industrial applications, Professional applications. Adapter for ILM Industrial applications, Professional applications. Industrial applications, Professional applications. Hyb Blocker Hvb Buffer Industrial applications, Professional applications. Industrial applications, Professional applications. Hyb Enhancer Industrial applications, Professional applications. 2X Amplification Mastermix Industrial applications, Professional applications. Library Binding Beads Capture Beads Industrial applications, Professional applications. Index Primer Mix for ILM 1-8 Industrial applications, Professional applications. Index Primer Mix for ILM 9-16 Industrial applications, Professional applications.

Industrial sector specific solutions

Nuclease-Free Water Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. **End Prep Buffer** Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hvb Buffer Not available. Hyb Enhancer Not available. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

# Section 8. Exposure controls/personal protection

### **8.1 Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
Nuclease-Free Water water	None.
Hyb Wash Buffer 1 Sodium dodecyl sulphate	None.
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	None.
omegahydroxy-	

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# Section 8. Exposure controls/personal protection

### **End Prep Buffer**

Magnesium chloride

None.

#### **End Prep Enzyme**

Glycerol

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

TWA: 5 mg/m³ 8 hours. Form: Respirable fraction

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust OSHA PEL (United States, 5/2018).

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable

TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m<sup>3</sup> 8 hours. Form: respirable

fraction TWA: 10 mg/m<sup>3</sup> 8 hours. Form: total dust

#### **Ligation Enzyme**

Glycerol

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

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust OSHA PEL (United States, 5/2018).

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable

TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m<sup>3</sup> 8 hours. Form: respirable

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: total dust

#### **Hyb Buffer**

tetramethylammonium chloride

Dextran sulfate sodium

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

omega.-hydroxy-

None. None.

None.

#### Hyb Enhancer

Formamide

### ACGIH TLV (United States, 1/2023).

Absorbed through skin.

TWA: 1 ppm 8 hours.

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

TWA: 20 ppm 8 hours. TWA: 30 mg/m<sup>3</sup> 8 hours. STEL: 30 ppm 15 minutes. STEL: 45 mg/m<sup>3</sup> 15 minutes.

#### NIOSH REL (United States, 10/2020).

### Absorbed through skin.

TWA: 10 ppm 10 hours. TWA: 15 mg/m<sup>3</sup> 10 hours.

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

Absorbed through skin.

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

#### 2X Amplification Mastermix

Glycerol

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

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable

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# Section 8. Exposure controls/personal protection

fraction

TWA: 10 mg/m³ 8 hours. Form: Total dust **OSHA PEL (United States, 5/2018).** 

TWA: 5 mg/m³ 8 hours. Form: Respirable

fraction

TWA: 15 mg/m³ 8 hours. Form: Total dust **CAL OSHA PEL (United States, 5/2018).** TWA: 5 mg/m³ 8 hours. Form: respirable

fraction

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: total dust

#### **Biological exposure indices**

No exposure indices known.

#### 8.2 Exposure controls

Appropriate engineering controls

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

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** 

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

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

Eye/face protection

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

# Skin protection

**Hand protection** 

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

**Body protection** 

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

Other skin protection

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

Respiratory protection

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

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

#### **Appearance**

**Physical state** 

: Nuclease-Free Water Liquid. Library Wash Buffer Liquid. Hyb Wash Buffer 1 Liquid. Hyb Wash Buffer 2 Liquid. Resuspension Buffer 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. 2X Amplification Mastermix Liquid. Library Binding Beads Liquid. Capture Beads Liquid. Index Primer Mix for ILM 1-8 Liquid. Index Primer Mix for ILM 9-16 Liquid.

Color

Nuclease-Free Water Colorless. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer 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. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available. Index Primer Mix for ILM 9-16 Not available. Odorless.

Odor

Nuclease-Free Water Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Not available. Adapter for ILM Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

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Od	or	th	res	hΩ	

Nuclease-Free Water Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer 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. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

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Nuclease-Free Water 7

Library Wash Buffer Not available. Hyb Wash Buffer 1 7.2 to 7.6 Hyb Wash Buffer 2 7.2 to 7.6 Resuspension Buffer 8 End Prep Buffer 8 End Prep Enzyme 7.5 Ligation Buffer 8 7.5 Ligation Enzyme Adapter for ILM 8 Hyb Blocker 8 7.5 Hvb Buffer

Hyb Enhancer Not available. 2X Amplification Mastermix Not available.

Library Binding Beads

Capture Beads Not available.

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

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

: Nuclease-Free Water 0°C (32°F) Library Wash Buffer Not available. 0°C (32°F) Hyb Wash Buffer 1 Hyb Wash Buffer 2 0°C (32°F) Resuspension Buffer 0°C (32°F) End Prep Buffer Not available. End Prep Enzyme Not available. **Ligation Buffer** Not available. Ligation Enzyme Not available. Adapter for ILM 0°C (32°F) Hyb Blocker 0°C (32°F) Hyb Buffer Not available. Hvb Enhancer Not available. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 0°C (32°F) Index Primer Mix for ILM 9-16 0°C (32°F)

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Boiling point, initial boiling point, and boiling range

100°C (212°F) : Nuclease-Free Water Library Wash Buffer Not available. Hyb Wash Buffer 1 100°C (212°F) 100°C (212°F) Hyb Wash Buffer 2 Resuspension Buffer 100°C (212°F) End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM 100°C (212°F) Hyb Blocker 100°C (212°F) Hyb Buffer Not available. Hyb Enhancer Not available. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 100°C (212°F) Index Primer Mix for ILM 9-16 100°C (212°F)

### Flash point

:		C	Closed cu	р	Open cup		
	Ingredient name	°C	°F	Method	°C	°F	Method
	End Prep Enzyme						
	Glycerol	-	-	-	177	350.6	-
	Ligation Enzyme						
	Glycerol	-	-	-	177	350.6	-
	Hyb Enhancer						
	Formamide	150	302	-	152	305.6	DIN EN ISO 2592
	2X Amplification Mastermix						
	Glycerol	-	-	-	177	350.6	-

## **Evaporation rate**

: Nuclease-Free Water Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Not available. **Ligation Buffer** Ligation Enzyme Not available. Adapter for ILM Not available. Not available. Hyb Blocker Hyb Buffer Not available. Hyb Enhancer Not available. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

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### **Flammability**

: Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Not applicable. Resuspension Buffer **End Prep Buffer** Not applicable. End Prep Enzyme Not applicable. Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. 2X Amplification Mastermix Not applicable. Not applicable. Library Binding Beads Capture Beads Not applicable. Index Primer Mix for ILM 1-8 Not applicable. Index Primer Mix for ILM 9-16 Not applicable. Not available. Not available.

## Lower and upper explosion limit/flammability limit

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer 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. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

#### Vapor pressure

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

_	Vapo	r Pressui	re at 20°C	Vap	or pressure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
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	-
Resuspension						

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and chemical	brobe	, ucs	and Said	ty Cin	aracic	Houcs
Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer						
water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Adapter for ILM						
water	17.5	2.3	-	92.258	12.3	-
Hyb Blocker						
water	17.5	2.3	-	92.258	12.3	-
Hyb Buffer						
water	17.5	2.3	_	92.258	12.3	-
tetramethylammonium chloride	0.000000001	0.00000000013	EU A.4	-	-	-
Hyb Enhancer						
Formamide	0.045	0.006	-	-	-	-
2X Amplification Mastermix						
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Library Binding Beads						
water	17.5	2.3	-	92.258	12.3	_

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Capture Beads water	17.5	2.3	-	92.258	12.3	-
Index Primer Mix for ILM 1-8 water	17.5	2.3	-	92.258	12.3	-
Index Primer Mix for ILM 9-16						
water	17.5	2.3	-	92.258	12.3	-

## Relative vapor density

: Nuclease-Free Water 0.62 [Air = 1]Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer 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. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

### **Relative density**

Nuclease-Free Water Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hvb Wash Buffer 2 Not available. Resuspension Buffer 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. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available. Index Primer Mix for ILM 9-16 Not available.

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Media	Result
Nuclease-Free Water	
water	Soluble
Library Wash Buffer	
water	Soluble
Hyb Wash Buffer 1	
water	Soluble
Hyb Wash Buffer 2	
water	Soluble
Resuspension Buffer	
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	0.14.1
water	Soluble
Library Binding Beads	Calubia
water	Soluble
Capture Beads	Salubla
water Index Primer Mix for ILM 1-8	Soluble
	Solublo
water Index Primer Mix for ILM 9-16	Soluble
water	Soluble
Nuclease-Free Water -1.3	RQ

# Partition coefficient: n-octanol/water

Nuclease-Free Water	-1.38
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	Not applicable.
Resuspension Buffer	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.
2X Amplification Mastermix	Not applicable.
Library Binding Beads	Not applicable.
Capture Beads	Not applicable.
Index Primer Mix for ILM 1-8	Not applicable.
Index Primer Mix for ILM 9-16	Not applicable.

**Auto-ignition temperature** 

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Ingredient name	°C	°F	Method
End Prep Enzyme			
Glycerol	370	698	-
Ligation Enzyme			
Glycerol	370	698	-
Hyb Enhancer			
Formamide	>500	>932	ASTM D 2155-66
2X Amplification Mastermix			
Glycerol	370	698	-

## **Decomposition temperature**: Nuclease-Free Water

Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer 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. 2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available.

### **Viscosity**

Not available.
Not available.

## **Particle characteristics**

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Median particle size

Not applicable. : Nuclease-Free Water Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Not applicable. Adapter for ILM Hyb Blocker Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Enhancer Not applicable. 2X Amplification Mastermix Not applicable. Library Binding Beads Not applicable. Capture Beads Index Primer Mix for ILM 1-8 Not applicable. Index Primer Mix for ILM 9-16 Not applicable.

# Section 10. Stability and reactivity

10.1 Reactivity

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

for this product or its ingredients.

Library Wash Buffer No specific test data related to reactivity available

for this product or its ingredients.

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

for this product or its ingredients.

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

for this product or its ingredients.

No specific test data related to reactivity available Resuspension Buffer

for this product or its ingredients.

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

for this product or its ingredients.

No specific test data related to reactivity available End Prep Enzyme

for this product or its ingredients.

Ligation Buffer No specific test data related to reactivity available

for this product or its ingredients.

No specific test data related to reactivity available Ligation Enzyme

for this product or its ingredients.

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

No specific test data related to reactivity available

Hyb Blocker for this product or its ingredients.

No specific test data related to reactivity available

Hyb Buffer for this product or its ingredients.

Hyb Enhancer No specific test data related to reactivity available

for this product or its ingredients.

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

for this product or its ingredients.

Library Binding Beads No specific test data related to reactivity available

for this product or its ingredients.

Capture Beads No specific test data related to reactivity available

for this product or its ingredients.

Index Primer Mix for ILM 1-8 No specific test data related to reactivity available

for this product or its ingredients.

Index Primer Mix for ILM 9-16 No specific test data related to reactivity available

for this product or its ingredients.

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# Section 10. Stability and reactivity

## 10.2 Chemical stability

: Nuclease-Free Water The product is stable. Library Wash Buffer The product is stable. Hyb Wash Buffer 1 The product is stable. Hvb Wash Buffer 2 The product is stable. Resuspension Buffer 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. 2X Amplification Mastermix The product is stable. Library Binding Beads The product is stable. Capture Beads The product is stable. Index Primer Mix for ILM 1-8 The product is stable. Index Primer Mix for ILM 9-16 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.

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.

Resuspension Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

End Prep Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

End Prep Enzyme Under normal conditions of storage and use,

hazardous reactions will not occur.

Ligation Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Ligation Enzyme Under normal conditions of storage and use,

hazardous reactions will not occur.

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.

hazardous reactions will not occur.

Library Binding Beads Under normal conditions of storage and use,

hazardous reactions will not occur.

Capture Beads Under normal conditions of storage and use,

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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

hazardous reactions will not occur.

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# Section 10. Stability and reactivity

#### 10.4 Conditions to avoid

: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. End Prep Buffer No specific data. No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM Hyb Blocker No specific data. Hyb Buffer No specific data. Hyb Enhancer No specific data. 2X Amplification Mastermix No specific data. No specific data. Library Binding Beads Capture Beads No specific data. Index Primer Mix for ILM 1-8 No specific data. Index Primer Mix for ILM 9-16 No specific data.

#### 10.5 Incompatible materials

: Nuclease-Free Water Ma

May react or be incompatible with oxidizing

materials.

Library Wash Buffer May react or be incompatible with oxidizing

materials.

Hyb Wash Buffer 1 May react or be incompatible with oxidizing

materials.

Hyb Wash Buffer 2 May react or be incompatible with oxidizing

materials.

Resuspension Buffer May react or be incompatible with oxidizing

materials.

End Prep Buffer May react or be incompatible with oxidizing

materials.

End Prep Enzyme May react or be incompatible with oxidizing

materials.

Ligation Buffer May react or be incompatible with oxidizing

materials.

Ligation Enzyme May react or be incompatible with oxidizing

materials.

Adapter for ILM May react or be incompatible with oxidizing

materials.

Hyb Blocker May react or be incompatible with oxidizing

materials.

Hyb Buffer May react or be incompatible with oxidizing

materials.

Hyb Enhancer May react or be incompatible with oxidizing

materials.

2X Amplification Mastermix May react or be incompatible with oxidizing

materials.

Library Binding Beads May react or be incompatible with oxidizing

materials.

Capture Beads May react or be incompatible with oxidizing

materials.

Index Primer Mix for ILM 1-8 May react or be incompatible with oxidizing

materials.

Index Primer Mix for ILM 9-16 May react or be incompatible with oxidizing

materials.

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# Section 10. Stability and reactivity

10.6 Hazardous decomposition products

: Nuclease-Free Water 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

oroduced.

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

hazardous decomposition products should not be

produced.

Resuspension Buffer 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.

2X Amplification Mastermix 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.

Index Primer Mix for ILM 1-8 Under normal conditions of storage and use.

hazardous decomposition products should not be

produced.

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

hazardous decomposition products should not be

produced.

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# 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Hyb Wash Buffer 1 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral	Rat	2800 mg/kg	-
End Prep Buffer Magnesium chloride	LD50 Dermal LD50 Oral	Rat - Male, Female Rat	>2000 mg/kg 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  Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Dermal  LD50 Oral  LD50 Oral  LD50 Oral	Rabbit - Male, Female Rat Rat Rat	200 to 500 mg/kg 50 mg/kg 20600 mg/kg 2800 mg/kg	-
<b>Hyb Enhancer</b> Formamide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat - Male Rabbit Rat	>21 mg/l 17 g/kg 5570 mg/kg	4 hours - -
2X Amplification Mastermix Glycerol	LD50 Oral	Rat	12600 mg/kg	-

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hyb Wash Buffer 1					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	_
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
				mg	

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	•				
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl)	Eyes - Severe irritant	Rabbit	-	1 %	-
phenyl]omegahydroxy-					
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	
Glycerol	Eyes - Milia IIIItalit	Kabbit	-	mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Hyb Buffer					
Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
OV Aventification Mant					
2X Amplification Mastermix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	

## **Sensitization**

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)

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

Specific target organ toxicity (repeated exposure)

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**Ligation Buffer** 

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Name	3.7	Route of exposure	Target organs
Hyb Enhancer Formamide	Category 2	oral	blood

### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Nuclease-Free Water Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available.

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

Inhalation, Eyes.

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

> Inhalation, Eyes. Not available.

Routes of entry anticipated: Oral, Dermal, Ligation Enzyme

Inhalation, Eyes.

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

Inhalation, Eyes.

Hyb Blocker Not available.

Hyb Buffer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Hyb Enhancer

Inhalation, Eyes.

Not available.

2X Amplification Mastermix Not available. Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM 1-8 Not available.

Index Primer Mix for ILM 9-16

Adapter for ILM

Potential acute health effects

**Eye contact** 

Nuclease-Free Water No known significant effects or critical hazards. Library Wash Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Wash Buffer 1 Hyb Wash Buffer 2 No known significant effects or critical hazards. Resuspension Buffer No known significant effects or critical hazards. End Prep Buffer No known significant effects or critical hazards. End Prep Enzyme Causes eve irritation.

**Ligation Buffer** 

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Ligation Enzyme Causes eye irritation.

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. 2X Amplification Mastermix 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. Index Primer Mix for ILM 1-8 No known significant effects or critical hazards.

Index Primer Mix for ILM 9-16 No known significant effects or critical hazards.

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#### Inhalation

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer
2X Amplification Mastermix
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16

**Skin contact** 

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer
2X Amplification Mastermix
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16

Ingestion

 Nuclease-Free Water Library Wash Buffer
 Hyb Wash Buffer 1
 Hyb Wash Buffer 2
 Resuspension Buffer
 End Prep Buffer
 End Prep Enzyme
 Ligation Buffer
 Ligation Enzyme
 Adapter for ILM
 Hyb Blocker
 Hyb Buffer

Hyb Enhancer
2X Amplification Mastermix
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16

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

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

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

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

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

**Eye contact** 

: Nuclease-Free Water
Library Wash Buffer
Hyb Wash Buffer 1
No specific data.
Hyb Wash Buffer 2
Resuspension Buffer
End Prep Buffer
No specific data.
No specific data.
No specific data.
No specific data.

End Prep Enzyme Adverse symptoms may include the following:

irritation watering redness

Ligation Buffer No specific data.

Ligation Enzyme Adverse symptoms may include the following:

irritation watering redness

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

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

No specific data.

Inhalation

Nuclease-Free Water No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hvb Wash Buffer 2 No specific data. No specific data. Resuspension Buffer **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. No specific data. Ligation Enzyme Adapter for ILM No specific data. Hyb Blocker No specific data. No specific data. Hvb Buffer

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
Nuclease-Free Water

No specific data.

Skin contact

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hvb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. No specific data. End Prep Buffer End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data.

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Hvb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

> irritation redness

Hyb Enhancer Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix No specific data. Library Binding Beads No specific data.

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

Nuclease-Free Water Library Wash Buffer

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

Adverse symptoms may include the following: Hyb Enhancer

reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix No specific data. Library Binding Beads No specific data. Capture Beads No specific data. Index Primer Mix for ILM 1-8 No specific data. Index Primer Mix for ILM 9-16 No specific data.

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

Short term exposure

**Potential immediate** : Not available.

effects

Ingestion

Potential delayed effects Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Nuclease-Free Water 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. Resuspension Buffer 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. No known significant effects or critical hazards. Adapter for ILM Hyb Blocker No known significant effects or critical hazards. Hyb Buffer No known significant effects or critical hazards.

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Hvb Enhancer

2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16

#### Carcinogenicity

Nuclease-Free Water
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
End Prep Buffer
End Prep Enzyme
Ligation Buffer
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Hyb Buffer
Hyb Enhancer

2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16

### Mutagenicity

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16

### Reproductive toxicity

Nuclease-Free Water
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
End Prep Buffer
End Prep Enzyme
Ligation Buffer
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Hyb Buffer
Hyb Enhancer
2X Amplification Mastermix
Library Binding Beads

May cause damage to organs through prolonged or repeated exposure.

No known significant effects or critical hazards. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. May damage fertility or the unborn child. No known significant effects or critical hazards.

No known significant effects or critical hazards.

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Capture Beads Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16 No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Library Wash Buffer Library Wash Buffer	37635.4	N/A	N/A	N/A	N/A
Hyb Wash Buffer 1 Hyb Wash Buffer 1 Sodium dodecyl sulphate	171428.6 1288	N/A N/A	N/A N/A	N/A N/A	N/A 1.5
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	500	N/A	N/A	N/A	N/A
End Prep Buffer End Prep Buffer Magnesium chloride	229323.3 2800	204752.9 2500	N/A N/A	N/A N/A	N/A N/A
End Prep Enzyme Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Enzyme Glycerol	12600	N/A	N/A	N/A	N/A
Hyb Buffer Hyb Buffer tetramethylammonium chloride Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	450.2 50 20600 500	2737.2 300 N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A
Hyb Enhancer Formamide	5570	17000	N/A	N/A	N/A
2X Amplification Mastermix Glycerol	12600	N/A	N/A	N/A	N/A
Library Binding Beads Library Binding Beads	17855.8	N/A	N/A	N/A	N/A

Other information

: End Prep Buffer

Adverse symptoms may include the following: May

cause skin sensitization.

Adapter for ILM Adverse symptoms may

Adverse symptoms may include the following: May

cause skin sensitization.

Hyb Enhancer Adverse symptoms may include the following: May cause eye irritation. May cause skin irritation.

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# 12.1 Toxicity

Acute EC50 1200 μg/l Marine water Acute LC50 900 μg/l Marine water	Algae - Skeletonema costatum Crustaceans - Artemia salina -	96 hours
Acute LC50 900 μg/l Marine water		
	Adult	48 hours
Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
Acute LC50 590 μg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
		96 hours
	ramosa - Neonate	21 days
	Neonate	21 days
Chronic NOEC 0.8 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i>	28 days
Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
Acute EC50 180000 μg/l Fresh water	Crustaceans - Eudiaptomus	48 hours
Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
Acute LC50 32000 μg/l Fresh water	Daphnia - <i>Daphnia hyalina</i> - Adult	48 hours
		96 hours
	subspicatus	72 hours
Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
Acute I C50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
reate 2000 o 1000 mg/ 1 100m mater	l ion emeeningmente ingrises	oo noaro
Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
, ,		
Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui	48 hours
Acute LC50 2.518 mg/l Fresh water		48 hours
Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC 0.8 mg/l Fresh water Acute EC50 210 µg/l Fresh water Acute LC50 10800 µg/l Marine water Acute LC50 2.518 mg/l Fresh water Acute LC50 7200 µg/l Fresh water Acute EC50 >100 mg/l Fresh water Acute EC50 180000 µg/l Fresh water Acute EC50 180000 µg/l Fresh water Acute LC50 32000 µg/l Fresh water Acute LC50 32000 µg/l Fresh water Acute LC50 2120 mg/l Fresh water Acute NOEC 100 mg/l Fresh water Chronic NOEC 0.1 mg/l Fresh water Acute LC50 54000 mg/l Fresh water Acute LC50 54000 mg/l Fresh water Acute LC50 462 mg/l Fresh water Acute LC50 210 µg/l Fresh water Acute LC50 210 µg/l Fresh water Acute LC50 10800 µg/l Marine water Acute LC50 10800 µg/l Marine water Acute LC50 2.518 mg/l Fresh water	Acute LC50 590 μg/l Fresh water Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC 0.8 mg/l Fresh water  Acute EC50 210 μg/l Fresh water  Acute LC50 10800 μg/l Marine water Acute LC50 10800 μg/l Fresh water Acute LC50 7200 μg/l Fresh water Acute EC50 >100 mg/l Fresh water Acute EC50 >100 mg/l Fresh water Acute EC50 180000 μg/l Fresh water Acute LC50 32000 μg/l Fresh water Acute LC50 32000 μg/l Fresh water Acute LC50 2120 mg/l Fresh water Acute LC50 2120 mg/l Fresh water Acute LC50 32000 μg/l Fresh water Acute LC50 54000 mg/l Fresh water Acute LC50 462 mg/l Fresh water Acute LC50 10800 μg/l Fresh water Acute LC50 210 μg/l Fresh water Acute LC50 210 μg/l Fresh water Acute LC50 2518 mg/l Fresh water Acute LC50 10800 μg/l Marine water Acute LC50 10800 μg/l Fresh water Acute LC50 10800 μg/l Fresh water Acute LC50 2.518 mg/l Fresh water Acute LC50 2.518 mg/l Fresh water Acute LC50 10800 μg/l Fresh water Acute LC50 10800 μg/l Fresh water Acute LC50 2.518 mg/l Fresh water

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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
2X Amplification Mastermix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hyb Wash Buffer 1				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-
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	-	-
2X Amplification Mastermix				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease-Free Water water	-	-	Readily
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-	-	Readily
Hyb Buffer tetramethylammonium chloride	-	-	Readily
<b>Hyb Enhancer</b> Formamide	-	-	Readily

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### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	Low
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-2.03	-	Low
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
End Prep Enzyme Glycerol	-1.76	-	Low
Ligation Enzyme Glycerol	-1.76	-	Low
Hyb Buffer tetramethylammonium chloride Poly(oxy-1,2-ethanediyl), .	<-1.6 2.7	78.67	Low
alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
<b>Hyb Enhancer</b> Formamide	-0.82	-	Low
2X Amplification Mastermix Glycerol	-1.76	-	Low

### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

12.5 Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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# Section 13. Disposal considerations

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

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

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

# Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated.

**IATA** 

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

# **Section 15. Regulatory information**

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

**U.S. Federal regulations** : TSCA 5(a)2 proposed significant new use rules: Nonylphenol, ethoxylated

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

(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-; Nonylphenol, ethoxylated;

Polyoxyethylene octyl phenyl ether

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

Clean Air Act Section 112

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

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

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

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

SARA 304 RQ : 72000000 lbs / 32688000 kg

**SARA 311/312** 

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# **Section 15. Regulatory information**

Classification

Nuclease-Free Water
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

End Prep Enzyme EYE IRRITATION - Category 2B

Ligation Buffer Not applicable

Ligation Enzyme EYE IRRITATION - Category 2B

Adapter for ILM Not applicable. Hyb Blocker Not applicable.

Hyb Buffer ACUTE TOXICITY (oral) - Category 4

SKIN IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -

Category 1

Hyb Enhancer CARCINOGENICITY - Category 2

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

EXPOSURE) - Category 2

2X Amplification Mastermix
Library Binding Beads
Capture Beads
Index Primer Mix for ILM 1-8
Index Primer Mix for ILM 9-16
Not applicable.
Not applicable.
Not applicable.

### Composition/information on ingredients

Name	%	Classification
End Prep Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Ligation Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Hyb Buffer tetramethylammonium chloride	≥10 - <15	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 3 SKIN IRRITATION - Category 2
Dextran sulfate sodium	≤3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
<b>Hyb Enhancer</b> Formamide	≥90	CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
2X Amplification Mastermix Glycerol	<10	EYE IRRITATION - Category 2B

### **SARA 313**

	Product name	CAS number	%
Supplier notification	Hyb Enhancer Formamide	75-12-7	≥90

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

### **State regulations**

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

New York : None of the components are listed.

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

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

California Prop. 65

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# **Section 15. Regulatory information**

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

#### **International regulations**

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

Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

## **Inventory list**

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

**New Zealand** : Not determined. **Philippines** Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam** : Not determined.

# **Section 16. Other information**

### Procedure used to derive the classification

Justification	
Calculation method	
Calculation method	
Calculation method	
Calculation method	
Calculation method	
Calculation method	

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# Section 16. Other information

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Calculation method

**History** 

Date of issue/Date of

revision

Date of previous issue : 02/23/2024

Version : 1.1

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

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

N/A = Not available UN = United Nations

Indicates information that has changed from previously issued version.

### **Notice to reader**

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