

SAFETY DATA SHEET

SurePrint G3 CGH/CGH+SNP 4x180K Bundle, Part Number G5922A

Section 1. Identification

1.1 Product identifier

Product name : SurePrint G3 CGH/CGH+SNP 4x180K Bundle, Part Number G5922A

Part no. (chemical kit) : G5922A

Part no. :

<input checked="" type="checkbox"/> Nuclease Free Water	5190-0439
Random Primers	5190-0441
5X gDNA Reaction Buffer	5190-3387
Alu I	5190-3394
Rsa I	5190-3395
10X Restriction Enzyme Buffer	5190-3396
BSA	5190-3397
Exo(-) Klenow	5190-0437
Cyanine-3-dUTP	5190-3389
Cyanine-5-dUTP	5190-3390
2X HI-RPM Hybridization Buffer	5188-6417
10X aCGH Blocking Agent	5188-6416
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	5188-5221
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	5188-5222
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	G4869-60510, G4890-60510, G4449-60510

Validation date : 10/22/2018

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

Material uses : Analytical reagent.

<input checked="" type="checkbox"/> Nuclease Free Water	2 x 1500 µl
Random Primers	2 x 265 µl
5X gDNA Reaction Buffer	2 x 550 µl
Alu I	2 x 28 µl 10 U/ µl
Rsa I	2 x 28 µl 10 U/ µl
BSA	2 x 15 µl
10X dNTP Mix	2 x 265 µl
Exo(-) Klenow	2 x 55 µl
Cyanine-3-dUTP	2 x 78 µl
Cyanine-5-dUTP	2 x 78 µl
2X HI-RPM Hybridization Buffer	1400 µl
10X aCGH Blocking Agent	25 Hybs lyophilized pellets
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	4000000 µl
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	4000000 µl
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	glass slide (1x1/4000000 µl)

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Note * : *SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K: This component is considered an article. Information provided is based on the encapsulated substance or mixture in this article.

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.
	Random Primers	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.
	5X gDNA Reaction Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Alu I	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Rsa I	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	10X Restriction Enzyme 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.
	BSA	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.
	Exo(-) Klenow	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Cyanine-3-dUTP	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.
	Cyanine-5-dUTP	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.
	2X HI-RPM Hybridization Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	10X aCGH Blocking Agent	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Agilent Oligo aCGH/ChIP-on-Chip 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

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Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2

the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

While this material is not considered hazardous by the 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.

SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K

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

5X gDNA Reaction Buffer

H317 SKIN SENSITIZATION - Category 1

Alu I

H320 EYE IRRITATION - Category 2B

Rsa I

H319 EYE IRRITATION - Category 2A

Exo(-) Klenow

H320 EYE IRRITATION - Category 2B

2X HI-RPM Hybridization Buffer

H315 SKIN IRRITATION - Category 2
 H318 SERIOUS EYE DAMAGE - Category 1
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2
 H402 AQUATIC HAZARD (ACUTE) - Category 3
 H412 AQUATIC HAZARD (LONG-TERM) - Category 3

10X aCGH Blocking Agent

H315 SKIN IRRITATION - Category 2
 H319 EYE IRRITATION - Category 2A
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Ingredients of unknown toxicity

: 5X gDNA Reaction Buffer	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%
Alu I	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%
Rsa I	Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60%
10X Restriction Enzyme Buffer	Percentage of the mixture consisting of ingredient

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	(s) of unknown dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient
	(s) of unknown inhalation toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient
	(s) of unknown oral toxicity: 1 - 10%
BSA	Percentage of the mixture consisting of ingredient
	(s) of unknown dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient
	(s) of unknown inhalation toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient
	(s) of unknown oral toxicity: 1 - 10%
Exo(-) Klenow	Percentage of the mixture consisting of ingredient
	(s) of unknown inhalation toxicity: 30 - 60%
2X HI-RPM Hybridization Buffer	Percentage of the mixture consisting of ingredient
	(s) of unknown dermal toxicity: 10 - 30%
	Percentage of the mixture consisting of ingredient
	(s) of unknown inhalation toxicity: 10 - 30%
	Percentage of the mixture consisting of ingredient
	(s) of unknown oral toxicity: 10 - 30%
10X aCGH Blocking Agent	Percentage of the mixture consisting of ingredient
	(s) of unknown dermal toxicity: 10 - 30%
	Percentage of the mixture consisting of ingredient
	(s) of unknown inhalation toxicity: 30 - 60%
	Percentage of the mixture consisting of ingredient
	(s) of unknown oral toxicity: 10 - 30%
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Percentage of the mixture consisting of ingredient
	(s) of unknown inhalation toxicity: > 60%
5 X gDNA Reaction Buffer	Percentage of the mixture consisting of ingredient
	(s) of unknown hazards to the aquatic environment: 3.9%
10X Restriction Enzyme Buffer	Percentage of the mixture consisting of ingredient
	(s) of unknown hazards to the aquatic environment: 1.6%
BSA	Percentage of the mixture consisting of ingredient
	(s) of unknown hazards to the aquatic environment: 1%
2X HI-RPM Hybridization Buffer	Percentage of the mixture consisting of ingredient
	(s) of unknown hazards to the aquatic environment: 17.9%
10X aCGH Blocking Agent	Percentage of the mixture consisting of ingredient
	(s) of unknown hazards to the aquatic environment: 16.6%

[2.2 GHS label elements](#)

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Hazard pictograms

: 5X gDNA Reaction Buffer



Rsa I



2X HI-RPM Hybridization Buffer



10X aCGH Blocking Agent



Signal word

: Nuclease Free Water
 Random Primers
 5X gDNA Reaction Buffer
 Alu I
 Rsa I
 10X Restriction Enzyme Buffer
 BSA
 Exo(-) Klenow
 Cyanine-3-dUTP
 Cyanine-5-dUTP
 2X HI-RPM Hybridization Buffer
 10X aCGH Blocking Agent
 Agilent Oligo aCGH/ChIP-on-Chip
 Wash Buffer 1
 Agilent Oligo aCGH/ChIP-on-Chip
 Wash Buffer 2
 SurePrint G3 CGH+SNP or
 Cancer CGH+SNP arrays, 4x180K

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

Hazard statements

: Nuclease Free Water
 Random Primers
 5X gDNA Reaction Buffer
 Alu I
 Rsa I
 10X Restriction Enzyme Buffer
 BSA
 Exo(-) Klenow
 Cyanine-3-dUTP
 Cyanine-5-dUTP
 2X HI-RPM Hybridization Buffer

 10X aCGH Blocking Agent

No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 H317 - May cause an allergic skin reaction.
 H320 - Causes eye irritation.
 H319 - Causes serious eye irritation.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 H320 - Causes eye irritation.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 H318 - Causes serious eye damage.
 H315 - Causes skin irritation.
 H335 - May cause respiratory irritation.
 H373 - May cause damage to organs through prolonged or repeated exposure. (cardiovascular system, central nervous system (CNS), kidneys, thyroid)
 H412 - Harmful to aquatic life with long lasting effects.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.

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Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	H335 - May cause respiratory irritation. No known significant effects or critical hazards.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No known significant effects or critical hazards.

Precautionary statements

Prevention

<ul style="list-style-type: none"> ☑ Nuclease Free Water Random Primers 5X gDNA Reaction Buffer 	Not applicable. Not applicable. P280 - Wear protective gloves. P261 - Avoid breathing vapor. P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.
<ul style="list-style-type: none"> Alu I Rsa I 	P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
<ul style="list-style-type: none"> 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 	Not applicable. Not applicable. P264 - Wash hands thoroughly after handling. Not applicable. Not applicable. P280 - Wear protective gloves. Wear eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor.
<ul style="list-style-type: none"> 10X aCGH Blocking Agent 	P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves. Wear eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling.
<ul style="list-style-type: none"> Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K 	Not applicable. Not applicable. Not applicable.

Response

<ul style="list-style-type: none"> ☑ Nuclease Free Water Random Primers 5X gDNA Reaction Buffer 	Not applicable. Not applicable. P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention.
<ul style="list-style-type: none"> Alu I 	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 attention.
<ul style="list-style-type: none"> Rsa I 	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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<p>10X Restriction Enzyme Buffer BSA Exo(-) Klenow</p>	<p>P337 + P313 - If eye irritation persists: Get medical attention. Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.</p>
<p>Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer</p>	<p>Not applicable. Not applicable. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention.</p>
<p>10X aCGH Blocking Agent</p>	<p>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 attention.</p>
<p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K</p>	<p>Not applicable. Not applicable. Not applicable.</p>
<p>Storage : Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer</p>	<p>Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P405 - Store locked up.</p>

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	10X aCGH Blocking Agent	P405 - Store locked up.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not applicable.
Disposal	: Nuclease Free Water	Not applicable.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	Exo(-) Klenow	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	2X HI-RPM Hybridization Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	10X aCGH Blocking Agent	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not applicable.
Supplemental label elements	: Nuclease Free Water	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	Exo(-) Klenow	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	2X HI-RPM Hybridization Buffer	None known.
	10X aCGH Blocking Agent	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	None known.
2.3 Other hazards		
Hazards not otherwise classified	: Nuclease Free Water	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	Exo(-) Klenow	None known.

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Cyanine-3-dUTP	None known.
Cyanine-5-dUTP	None known.
2X HI-RPM Hybridization Buffer	None known.
10X aCGH Blocking Agent	None known.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	<input checked="" type="checkbox"/> Nuclease Free Water	Substance
		Random Primers	Mixture
		5X gDNA Reaction Buffer	Mixture
		Alu I	Mixture
		Rsa I	Mixture
		10X Restriction Enzyme Buffer	Mixture
		BSA	Mixture
		Exo(-) Klenow	Mixture
		Cyanine-3-dUTP	Mixture
		Cyanine-5-dUTP	Mixture
		2X HI-RPM Hybridization Buffer	Mixture
		10X aCGH Blocking Agent	Mixture
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Mixture
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Mixture
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Mixture (encapsulated in article)

Ingredient name	%	CAS number
<input checked="" type="checkbox"/> Nuclease Free Water Water	100	7732-18-5
5X gDNA Reaction Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride 2-Mercaptoethanol	≤5 <1	1185-53-1 60-24-2
Alu I Glycerol	≥50 - ≤75	56-81-5
Rsa I Glycerol Sodium chloride	≥50 - ≤75 ≤3	56-81-5 7647-14-5
10X Restriction Enzyme Buffer Sodium chloride 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3 ≤3	7647-14-5 1185-53-1
Exo(-) Klenow Glycerol	≥50 - ≤75	56-81-5
2X HI-RPM Hybridization Buffer Lithium chloride Polyoxyethylene octyl phenyl ether	≤12 ≤6.3	7447-41-8 9002-93-1

Section 3. Composition/information on ingredients

Lithium dodecyl sulphate	≤6.3	2044-56-6
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	≤1.9	134180-76-0
10X aCGH Blocking Agent		
Trometamol	≥10 - ≤25	77-86-1
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - ≤25	1185-53-1
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K		
Sodium silicate	≥90	15859-24-2

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 as hazardous to health or the environment 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	:	<input checked="" type="checkbox"/> Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP	<p>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.</p> <p>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.</p> <p>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 irritation occurs.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get</p>
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	Cyanine-5-dUTP	medical attention if irritation occurs. 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.
	2X HI-RPM Hybridization Buffer	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	10X aCGH Blocking Agent	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.
	Agilent Oligo aCGH/ChIP-on-Chip 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.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Nuclease Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Random Primers	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	5X gDNA Reaction 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 adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Alu I	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

Section 4. First aid measures

	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.
Rsa I	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.
10X Restriction Enzyme Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
BSA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Exo(-) Klenow	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.
Cyanine-3-dUTP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Cyanine-5-dUTP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
2X HI-RPM Hybridization Buffer	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of

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		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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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.
	10X aCGH Blocking Agent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Nuclease Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Random Primers	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	5X gDNA Reaction Buffer	Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Alu I	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.
	Rsa I	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.
	10X Restriction Enzyme Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	BSA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

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Exo(-) Klenow	<p>medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
Cyanine-3-dUTP	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
Cyanine-5-dUTP	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
2X HI-RPM Hybridization Buffer	<p>Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
10X aCGH Blocking Agent	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
Ingestion	<p>:  Nuclease Free Water</p> <p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.</p>
Random Primers	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.</p>
5X gDNA Reaction Buffer	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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</p>

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Alu I

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. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

Rsa I

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

10X Restriction Enzyme Buffer

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

BSA

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

Exo(-) Klenow

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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

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	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.
Cyanine-3-dUTP	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
Cyanine-5-dUTP	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
2X HI-RPM Hybridization Buffer	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
10X aCGH Blocking Agent	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and

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Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2

the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
Random Primers
5X gDNA Reaction Buffer
Alu I
Rsa I
10X Restriction Enzyme Buffer
BSA
Exo(-) Klenow
Cyanine-3-dUTP
Cyanine-5-dUTP
2X HI-RPM Hybridization Buffer
10X aCGH Blocking Agent
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K

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

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

Inhalation

- : Nuclease Free Water
Random Primers
5X gDNA Reaction Buffer
Alu I
Rsa I
10X Restriction Enzyme Buffer
BSA
Exo(-) Klenow
Cyanine-3-dUTP
Cyanine-5-dUTP
2X HI-RPM Hybridization Buffer
10X aCGH Blocking Agent
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K

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.
May cause respiratory irritation.
May cause respiratory irritation.
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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Skin contact	: <input checked="" type="checkbox"/> Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause an allergic skin reaction. 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 skin irritation. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: <input checked="" type="checkbox"/> Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	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.

Over-exposure signs/symptoms

Eye contact	: <input checked="" type="checkbox"/> Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer	No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. Adverse symptoms may include the following: pain
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Inhalation

10X aCGH Blocking Agent	watering redness Adverse symptoms may include the following: pain or irritation watering redness
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.
: Nuclease Free Water	No specific data.
Random Primers	No specific data.
5X gDNA Reaction Buffer	No specific data.
Alu I	No specific data.
Rsa I	No specific data.
10X Restriction Enzyme Buffer	No specific data.
BSA	No specific data.
Exo(-) Klenow	No specific data.
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: respiratory tract irritation coughing

10X aCGH Blocking Agent	Adverse symptoms may include the following: respiratory tract irritation coughing
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.

Skin contact

: Nuclease Free Water	No specific data.
Random Primers	No specific data.
5X gDNA Reaction Buffer	Adverse symptoms may include the following: irritation redness
Alu I	No specific data.
Rsa I	No specific data.
10X Restriction Enzyme Buffer	No specific data.
BSA	No specific data.
Exo(-) Klenow	No specific data.
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain or irritation redness blistering may occur
10X aCGH Blocking Agent	Adverse symptoms may include the following: irritation redness
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.

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Ingestion	: Nuclease Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	No specific data.
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	Exo(-) Klenow	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: stomach pains
	10X aCGH Blocking Agent	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.

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

Notes to physician	: Nuclease Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Random Primers	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	5X gDNA Reaction 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.
	Alu I	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Rsa I	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	10X Restriction Enzyme 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.
	BSA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Exo(-) Klenow	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Cyanine-3-dUTP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Cyanine-5-dUTP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	2X HI-RPM Hybridization 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.
	10X aCGH Blocking Agent	In case of inhalation of decomposition products in a

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fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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

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

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

Specific treatments

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1		
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2		
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K		
☑ Nuclease Free Water		No specific treatment.
Random Primers		No specific treatment.
5X gDNA Reaction Buffer		No specific treatment.
Alu I		No specific treatment.
Rsa I		No specific treatment.
10X Restriction Enzyme Buffer		No specific treatment.
BSA		No specific treatment.
Exo(-) Klenow		No specific treatment.
Cyanine-3-dUTP		No specific treatment.
Cyanine-5-dUTP		No specific treatment.
2X HI-RPM Hybridization Buffer		No specific treatment.
10X aCGH Blocking Agent		No specific treatment.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1		No specific treatment.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2		No specific treatment.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K		No specific treatment.

Protection of first-aiders

☑ Nuclease Free Water		No action shall be taken involving any personal risk or without suitable training.
Random Primers		No action shall be taken involving any personal risk or without suitable training.
5X gDNA Reaction 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Alu I		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.
Rsa I		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.
10X Restriction Enzyme Buffer		No action shall be taken involving any personal risk or without suitable training.
BSA		No action shall be taken involving any personal risk or without suitable training.
Exo(-) Klenow		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.
Cyanine-3-dUTP		No action shall be taken involving any personal risk or without suitable training.
Cyanine-5-dUTP		No action shall be taken involving any personal risk

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2X HI-RPM Hybridization Buffer	or without suitable training. No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
10X aCGH Blocking Agent	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.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	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.
Random Primers	Use an extinguishing agent suitable for the surrounding fire.
5X gDNA Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
Alu I	Use an extinguishing agent suitable for the surrounding fire.
Rsa I	Use an extinguishing agent suitable for the surrounding fire.
10X Restriction Enzyme Buffer	Use an extinguishing agent suitable for the surrounding fire.
BSA	Use an extinguishing agent suitable for the surrounding fire.
Exo(-) Klenow	Use an extinguishing agent suitable for the surrounding fire.
Cyanine-3-dUTP	Use an extinguishing agent suitable for the surrounding fire.
Cyanine-5-dUTP	Use an extinguishing agent suitable for the surrounding fire.
2X HI-RPM Hybridization Buffer	Use an extinguishing agent suitable for the surrounding fire.
10X aCGH Blocking Agent	Use an extinguishing agent suitable for the surrounding fire.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Use an extinguishing agent suitable for the surrounding fire.

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Unsuitable extinguishing media	: Nuclease Free Water	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	Exo(-) Klenow	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	2X HI-RPM Hybridization Buffer	None known.
	10X aCGH Blocking Agent	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Nuclease Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	Random Primers	In a fire or if heated, a pressure increase will occur and the container may burst.
	5X gDNA Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Alu I	In a fire or if heated, a pressure increase will occur and the container may burst.
	Rsa I	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X Restriction Enzyme Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	BSA	In a fire or if heated, a pressure increase will occur and the container may burst.
	Exo(-) Klenow	In a fire or if heated, a pressure increase will occur and the container may burst.
	Cyanine-3-dUTP	In a fire or if heated, a pressure increase will occur and the container may burst.
	Cyanine-5-dUTP	In a fire or if heated, a pressure increase will occur and the container may burst.
	2X HI-RPM Hybridization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	10X aCGH Blocking Agent	No specific fire or explosion hazard.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific fire or explosion hazard.

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Hazardous thermal decomposition products	:	Nuclease Free Water	No specific data.
		Random Primers	No specific data.
		5X gDNA Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
		Alu I	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
		Rsa I	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
		10X Restriction Enzyme Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
		BSA	Decomposition products may include the following materials: carbon dioxide carbon monoxide
		Exo(-) Klenow	Decomposition products may include the following materials: carbon dioxide carbon monoxide
		Cyanine-3-dUTP	No specific data.
		Cyanine-5-dUTP	No specific data.
		2X HI-RPM Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
		10X aCGH Blocking Agent	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Decomposition products may include the following materials: metal oxide/oxides

Section 5. Fire-fighting measures

5.3 Advice for firefighters

Special protective actions for fire-fighters

: <input checked="" type="checkbox"/> 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.
Random Primers	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.
5X gDNA Reaction 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.
Alu I	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.
Rsa I	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.
10X Restriction Enzyme 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.
BSA	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.
Exo(-) Klenow	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.
Cyanine-3-dUTP	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.
Cyanine-5-dUTP	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
2X HI-RPM Hybridization 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.
10X aCGH Blocking Agent	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.
Agilent Oligo aCGH/ChIP-on-Chip 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.
Agilent Oligo aCGH/ChIP-on-Chip 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.

Section 5. Fire-fighting measures

<p>Special protective equipment for fire-fighters</p>	<p>SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K</p>	<p>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</p>
	<p>: Nuclease Free Water</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>Random Primers</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>5X gDNA Reaction Buffer</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>Alu I</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>Rsa I</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>10X Restriction Enzyme Buffer</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>BSA</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>Exo(-) Klenow</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>Cyanine-3-dUTP</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>Cyanine-5-dUTP</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>2X HI-RPM Hybridization Buffer</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>10X aCGH Blocking Agent</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	<p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</p>	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>

Section 5. Fire-fighting measures

SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency
personnel**

:  Nuclease Free Water

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

Random Primers

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

5X gDNA Reaction Buffer

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

Alu I

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.

Rsa I

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.

10X Restriction Enzyme 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.

BSA

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

Section 6. Accidental release measures

Exo(-) Klenow	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.
Cyanine-3-dUTP	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.
Cyanine-5-dUTP	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.
2X HI-RPM Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
10X aCGH Blocking Agent	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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	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.

Section 6. Accidental release measures

the information in "For non-emergency personnel".

6.2 Environmental precautions

: 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).

Random Primers

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).

5X gDNA Reaction 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).

Alu I

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).

Rsa I

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).

10X Restriction Enzyme 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).

BSA

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).

Exo(-) Klenow

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).

Cyanine-3-dUTP

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).

Cyanine-5-dUTP

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

2X HI-RPM Hybridization 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

Section 6. Accidental release measures

10X aCGH Blocking Agent	large quantities. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ChIP-on-Chip 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).
Agilent Oligo aCGH/ChIP-on-Chip 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).
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	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

Random Primers	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.
5X gDNA Reaction 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.
Alu I	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.
Rsa I	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.
10X Restriction Enzyme 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.

Section 6. Accidental release measures

BSA	disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Exo(-) Klenow	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.
Cyanine-3-dUTP	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.
Cyanine-5-dUTP	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
2X HI-RPM Hybridization 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.
10X aCGH Blocking Agent	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Agilent Oligo aCGH/ChIP-on-Chip 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.
Agilent Oligo aCGH/ChIP-on-Chip 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.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste 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).
	Random Primers	Put on appropriate personal protective equipment (see Section 8).
	5X gDNA Reaction Buffer	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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.
	Alu I	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.
	Rsa I	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.
	10X Restriction Enzyme Buffer	Put on appropriate personal protective equipment (see Section 8).
	BSA	Put on appropriate personal protective equipment (see Section 8).
	Exo(-) Klenow	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.
	Cyanine-3-dUTP	Put on appropriate personal protective equipment (see Section 8).
	Cyanine-5-dUTP	Put on appropriate personal protective equipment (see Section 8).
	2X HI-RPM Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.

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<p>Advice on general occupational hygiene</p>	10X aCGH Blocking Agent	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Put on appropriate personal protective equipment (see Section 8).
	:  Nuclease Free Water	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Random Primers	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	5X gDNA Reaction 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.
	Alu I	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.
	Rsa I	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.
	10X Restriction Enzyme 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.
BSA	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and	

Section 7. Handling and storage

Exo(-) Klenow	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.
Cyanine-3-dUTP	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.
Cyanine-5-dUTP	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
2X HI-RPM Hybridization 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.
10X aCGH Blocking Agent	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.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	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

Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: Nuclease Free Water

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.

Random Primers

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.

5X gDNA Reaction Buffer

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

Alu I

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.

Rsa I

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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10X Restriction Enzyme Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
BSA	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.
Exo(-) Klenow	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.
Cyanine-3-dUTP	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.
Cyanine-5-dUTP	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.
2X HI-RPM Hybridization Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food

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	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.
10X aCGH Blocking Agent	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.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

[7.3 Specific end use\(s\)](#)

Section 7. Handling and storage

Recommendations	<ul style="list-style-type: none"> ☑ Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K 	<ul style="list-style-type: none"> Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	<ul style="list-style-type: none"> ☑ Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K 	<ul style="list-style-type: none"> Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
☑ Nuclease Free Water Water	None.
5X gDNA Reaction Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride 2-Mercaptoethanol	None. AIHA WEEL (United States, 10/2011). Absorbed through skin. TWA: 0.2 ppm 8 hours.
Alu I Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable

Section 8. Exposure controls/personal protection

	fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Rsa I Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Sodium chloride	None.
10X Restriction Enzyme Buffer Sodium chloride 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None. None.
Exo(-) Klenow Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
2X HI-RPM Hybridization Buffer Lithium chloride Polyoxyethylene octyl phenyl ether Lithium dodecyl sulphate Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	None. None. None. None.
10X aCGH Blocking Agent Trometamol 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None. None.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K Sodium silicate	None.

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

Section 9. Physical and chemical properties

Color	:	☑ Nuclease Free Water	Colorless.		
		Random Primers	Not available.		
		5X gDNA Reaction Buffer	Not available.		
		Alu I	Not available.		
		Rsa I	Not available.		
		10X Restriction Enzyme Buffer	Not available.		
		BSA	Not available.		
		Exo(-) Klenow	Not available.		
		Cyanine-3-dUTP	Not available.		
		Cyanine-5-dUTP	Not available.		
		2X HI-RPM Hybridization Buffer	Not available.		
		10X aCGH Blocking Agent	Not available.		
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.		
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.		
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.		
		Odor	:	☑ Nuclease Free Water	Odorless.
				Random Primers	Not available.
5X gDNA Reaction Buffer	Not available.				
Alu I	Not available.				
Rsa I	Not available.				
10X Restriction Enzyme Buffer	Not available.				
BSA	Not available.				
Exo(-) Klenow	Not available.				
Cyanine-3-dUTP	Not available.				
Cyanine-5-dUTP	Not available.				
2X HI-RPM Hybridization Buffer	Not available.				
10X aCGH Blocking Agent	Not available.				
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.				
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.				
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.				
Odor threshold	:			☑ Nuclease Free Water	Not available.
				Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.		
		Alu I	Not available.		
		Rsa I	Not available.		
		10X Restriction Enzyme Buffer	Not available.		
		BSA	Not available.		
		Exo(-) Klenow	Not available.		
		Cyanine-3-dUTP	Not available.		
		Cyanine-5-dUTP	Not available.		
		2X HI-RPM Hybridization Buffer	Not available.		
		10X aCGH Blocking Agent	Not available.		
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.		
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.		
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.		
		pH	:		

Section 9. Physical and chemical properties

☒ Nuclease Free Water	7
Random Primers	8
5X gDNA Reaction Buffer	7.5
Alu I	7.4
Rsa I	7.4
10X Restriction Enzyme Buffer	7.9
BSA	Not available.
Exo(-) Klenow	7.5
Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
2X HI-RPM Hybridization Buffer	6.1
10X aCGH Blocking Agent	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	8.2 to 8.6
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	8 to 8.4
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

Melting point

☒ Nuclease Free Water	0°C (32°F)
Random Primers	0°C (32°F)
5X gDNA Reaction Buffer	0°C (32°F)
Alu I	Not available.
Rsa I	Not available.
10X Restriction Enzyme Buffer	Not available.
BSA	0°C (32°F)
Exo(-) Klenow	Not available.
Cyanine-3-dUTP	0°C (32°F)
Cyanine-5-dUTP	0°C (32°F)
2X HI-RPM Hybridization Buffer	Not available.
10X aCGH Blocking Agent	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	0°C (32°F)
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	0°C (32°F)
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

Boiling point

☒ Nuclease Free Water	100°C (212°F)
Random Primers	100°C (212°F)
5X gDNA Reaction Buffer	100°C (212°F)
Alu I	Not available.
Rsa I	Not available.
10X Restriction Enzyme Buffer	Not available.
BSA	100°C (212°F)
Exo(-) Klenow	Not available.
Cyanine-3-dUTP	100°C (212°F)
Cyanine-5-dUTP	100°C (212°F)
2X HI-RPM Hybridization Buffer	Not available.
10X aCGH Blocking Agent	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	100°C (212°F)
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	100°C (212°F)
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

Section 9. Physical and chemical properties

Flash point	:	☑ Nuclease Free Water	Not applicable.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
	Evaporation rate	:	☑ Nuclease Free Water
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
Flammability (solid, gas)		:	☑ Nuclease Free Water
		Random Primers	Not applicable.
		5X gDNA Reaction Buffer	Not applicable.
		Alu I	Not applicable.
		Rsa I	Not applicable.
		10X Restriction Enzyme Buffer	Not applicable.
		BSA	Not applicable.
		Exo(-) Klenow	Not applicable.
		Cyanine-3-dUTP	Not applicable.
		Cyanine-5-dUTP	Not applicable.
		2X HI-RPM Hybridization Buffer	Not applicable.
		10X aCGH Blocking Agent	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	<input checked="" type="checkbox"/> Nuclease Free Water	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
	Vapor pressure	<input checked="" type="checkbox"/> Nuclease Free Water
Random Primers		Not available.
5X gDNA Reaction Buffer		Not available.
Alu I		Not available.
Rsa I		Not available.
10X Restriction Enzyme Buffer		Not available.
BSA		Not available.
Exo(-) Klenow		Not available.
Cyanine-3-dUTP		Not available.
Cyanine-5-dUTP		Not available.
2X HI-RPM Hybridization Buffer		Not available.
10X aCGH Blocking Agent		Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1		Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2		Not available.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K		Not available.
Vapor density		<input checked="" type="checkbox"/> Nuclease Free Water
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

Section 9. Physical and chemical properties

Relative density	:	☑ Nuclease Free Water	1
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
Solubility	:	☑ Nuclease Free Water	Easily soluble in the following materials: cold water and hot water.
		Random Primers	Easily soluble in the following materials: cold water and hot water.
		5X gDNA Reaction Buffer	Easily soluble in the following materials: cold water and hot water.
		Alu I	Soluble in the following materials: cold water and hot water.
		Rsa I	Soluble in the following materials: cold water and hot water.
		10X Restriction Enzyme Buffer	Easily soluble in the following materials: cold water and hot water.
		BSA	Easily soluble in the following materials: cold water and hot water.
		Exo(-) Klenow	Soluble in the following materials: cold water and hot water.
		Cyanine-3-dUTP	Easily soluble in the following materials: cold water and hot water.
		Cyanine-5-dUTP	Easily soluble in the following materials: cold water and hot water.
		2X HI-RPM Hybridization Buffer	Soluble in the following materials: cold water and hot water.
		10X aCGH Blocking Agent	Soluble in the following materials: cold water and hot water.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Easily soluble in the following materials: cold water and hot water.
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	☑ Nuclease Free Water	-1.38
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.

Section 9. Physical and chemical properties

	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
Auto-ignition temperature	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
Decomposition temperature	<input checked="" type="checkbox"/> Nuclease Free Water	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
Viscosity	<input checked="" type="checkbox"/> Nuclease Free Water	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.

Section 9. Physical and chemical properties

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

Section 10. Stability and reactivity

10.1 Reactivity

: <input checked="" type="checkbox"/> Nuclease Free Water	No specific test data related to reactivity available for this product or its ingredients.
Random Primers	No specific test data related to reactivity available for this product or its ingredients.
5X gDNA Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.
Alu I	No specific test data related to reactivity available for this product or its ingredients.
Rsa I	No specific test data related to reactivity available for this product or its ingredients.
10X Restriction Enzyme Buffer	No specific test data related to reactivity available for this product or its ingredients.
BSA	No specific test data related to reactivity available for this product or its ingredients.
Exo(-) Klenow	No specific test data related to reactivity available for this product or its ingredients.
Cyanine-3-dUTP	No specific test data related to reactivity available for this product or its ingredients.
Cyanine-5-dUTP	No specific test data related to reactivity available for this product or its ingredients.
2X HI-RPM Hybridization Buffer	No specific test data related to reactivity available for this product or its ingredients.
10X aCGH Blocking Agent	No specific test data related to reactivity available for this product or its ingredients.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: <input checked="" type="checkbox"/> Nuclease Free Water	The product is stable.
Random Primers	The product is stable.
5X gDNA Reaction Buffer	The product is stable.
Alu I	The product is stable.
Rsa I	The product is stable.
10X Restriction Enzyme Buffer	The product is stable.
BSA	The product is stable.
Exo(-) Klenow	The product is stable.
Cyanine-3-dUTP	The product is stable.
Cyanine-5-dUTP	The product is stable.
2X HI-RPM Hybridization Buffer	The product is stable.
10X aCGH Blocking Agent	The product is stable.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	The product is stable.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	The product is stable.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions

☑ Nuclease Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
Random Primers	Under normal conditions of storage and use, hazardous reactions will not occur.
5X gDNA Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Alu I	Under normal conditions of storage and use, hazardous reactions will not occur.
Rsa I	Under normal conditions of storage and use, hazardous reactions will not occur.
10X Restriction Enzyme Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
BSA	Under normal conditions of storage and use, hazardous reactions will not occur.
Exo(-) Klenow	Under normal conditions of storage and use, hazardous reactions will not occur.
Cyanine-3-dUTP	Under normal conditions of storage and use, hazardous reactions will not occur.
Cyanine-5-dUTP	Under normal conditions of storage and use, hazardous reactions will not occur.
2X HI-RPM Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
10X aCGH Blocking Agent	Under normal conditions of storage and use, hazardous reactions will not occur.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

☑ Nuclease Free Water	No specific data.
Random Primers	No specific data.
5X gDNA Reaction Buffer	No specific data.
Alu I	No specific data.
Rsa I	No specific data.
10X Restriction Enzyme Buffer	No specific data.
BSA	No specific data.
Exo(-) Klenow	No specific data.
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
2X HI-RPM Hybridization Buffer	No specific data.
10X aCGH Blocking Agent	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.

10.5 Incompatible materials

☑ Nuclease Free Water	May react or be incompatible with oxidizing materials.
Random Primers	May react or be incompatible with oxidizing materials.
5X gDNA Reaction Buffer	May react or be incompatible with oxidizing materials.
Alu I	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

Rsa I	May react or be incompatible with oxidizing materials.
10X Restriction Enzyme Buffer	May react or be incompatible with oxidizing materials.
BSA	May react or be incompatible with oxidizing materials.
Exo(-) Klenow	May react or be incompatible with oxidizing materials.
Cyanine-3-dUTP	May react or be incompatible with oxidizing materials.
Cyanine-5-dUTP	May react or be incompatible with oxidizing materials.
2X HI-RPM Hybridization Buffer	May react or be incompatible with oxidizing materials.
10X aCGH Blocking Agent	May react or be incompatible with oxidizing materials.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	May react or be incompatible with oxidizing materials.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	May react or be incompatible with oxidizing materials.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products

☑ Nuclease Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Random Primers	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
5X gDNA Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Alu I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Rsa I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X Restriction Enzyme Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
BSA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Exo(-) Klenow	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Cyanine-3-dUTP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Cyanine-5-dUTP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
2X HI-RPM Hybridization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X aCGH Blocking Agent	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 10. Stability and reactivity

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
5X gDNA Reaction Buffer 2-Mercaptoethanol	LD50 Dermal LD50 Oral	Rabbit Rat	167.1 mg/kg 244 mg/kg	- -
Alu I Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Rsa I Glycerol Sodium chloride	LD50 Oral LD50 Oral	Rat Rat	12600 mg/kg 3000 mg/kg	- -
10X Restriction Enzyme Buffer Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Exo(-) Klenow Glycerol	LD50 Oral	Rat	12600 mg/kg	-
2X HI-RPM Hybridization Buffer Lithium chloride	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal LD50 Oral LD50 Oral	Rat Rabbit Rat Rat Rat	>5.57 mg/l 1629 mg/kg 1488 mg/kg 526 mg/kg 1800 mg/kg	4 hours - - - -
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	>5000 mg/kg	-
Lithium dodecyl sulphate	LD50 Oral	Rat	>5000 mg/kg	-
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyloxy)-1-disiloxanyl]propyl] ether	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rabbit Rat	1.08 mg/l 1550 mg/kg 3200 mg/kg	4 hours - -
10X aCGH Blocking Agent Trometamol	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg 5000 mg/kg	- -

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
5X gDNA Reaction Buffer 2-Mercaptoethanol	Eyes - Severe irritant	Rabbit	-	2 milligrams	-
Alu I Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Rsa I Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
10X Restriction Enzyme Buffer Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Exo(-) Klenow Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
2X HI-RPM Hybridization Buffer Lithium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
Polyoxyethylene octyl phenyl ether	Eyes - Moderate irritant	Rabbit	-	24 hours 10 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyl)oxy]-1-disiloxanyl]propyl ether	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
10X aCGH Blocking Agent Trometamol	Skin - Moderate irritant	Rabbit	-	25 Percent	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-

Sensitization

Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
2X HI-RPM Hybridization Buffer Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyloxy)-1-disiloxany]propyl] ether	skin	Guinea pig	Not sensitizing

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
5X gDNA Reaction Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
2-Mercaptoethanol	Category 3	Not applicable.	Respiratory tract irritation
10X Restriction Enzyme Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
2X HI-RPM Hybridization Buffer Lithium chloride	Category 3	Not applicable.	Respiratory tract irritation
Polyoxyethylene octyl phenyl ether	Category 3	Not applicable.	Respiratory tract irritation
Lithium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
10X aCGH Blocking Agent Trometamol	Category 3	Not applicable.	Respiratory tract irritation
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K Sodium silicate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
2X HI-RPM Hybridization Buffer Lithium chloride	Category 2	Not determined	cardiovascular system, central nervous system (CNS), kidneys and thyroid

Aspiration hazard

Not available.

Information on the likely routes of exposure

<input checked="" type="checkbox"/> Nuclease Free Water	Not available.
Random Primers	Not available.
5X gDNA Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
Alu I	Routes of entry anticipated: Oral, Dermal, Inhalation.
Rsa I	Routes of entry anticipated: Oral, Dermal, Inhalation.
10X Restriction Enzyme Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
BSA	Not available.
Exo(-) Klenow	Routes of entry anticipated: Oral, Dermal, Inhalation.
Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
2X HI-RPM Hybridization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
10X aCGH Blocking Agent	Routes of entry anticipated: Oral, Dermal, Inhalation.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

Potential acute health effects

Eye contact

<input checked="" type="checkbox"/> Nuclease Free Water	No known significant effects or critical hazards.
Random Primers	No known significant effects or critical hazards.
5X gDNA Reaction Buffer	No known significant effects or critical hazards.
Alu I	Causes eye irritation.
Rsa I	Causes serious eye irritation.
10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
BSA	No known significant effects or critical hazards.
Exo(-) Klenow	Causes eye irritation.
Cyanine-3-dUTP	No known significant effects or critical hazards.
Cyanine-5-dUTP	No known significant effects or critical hazards.
2X HI-RPM Hybridization Buffer	Causes serious eye damage.
10X aCGH Blocking Agent	Causes serious eye irritation.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No known significant effects or critical hazards.

Section 11. Toxicological information

Inhalation	<ul style="list-style-type: none"> ☑ Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. May cause respiratory irritation. May cause respiratory irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	<ul style="list-style-type: none"> ☑ Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. May cause an allergic skin reaction. 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 skin irritation. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	<ul style="list-style-type: none"> ☑ Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. 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.

[Symptoms related to the physical, chemical and toxicological characteristics](#)

Section 11. Toxicological information

Eye contact	:	Nuclease Free Water	No specific data.
		Random Primers	No specific data.
		5X gDNA Reaction Buffer	No specific data.
		Alu I	Adverse symptoms may include the following: irritation watering redness
		Rsa I	Adverse symptoms may include the following: pain or irritation watering redness
		10X Restriction Enzyme Buffer	No specific data.
		BSA	No specific data.
		Exo(-) Klenow	Adverse symptoms may include the following: irritation watering redness
		Cyanine-3-dUTP	No specific data.
		Cyanine-5-dUTP	No specific data.
		2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain watering redness
		10X aCGH Blocking Agent	Adverse symptoms may include the following: pain or irritation watering redness
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.		
Inhalation	:	Nuclease Free Water	No specific data.
		Random Primers	No specific data.
		5X gDNA Reaction Buffer	No specific data.
		Alu I	No specific data.
		Rsa I	No specific data.
		10X Restriction Enzyme Buffer	No specific data.
		BSA	No specific data.
		Exo(-) Klenow	No specific data.
		Cyanine-3-dUTP	No specific data.
		Cyanine-5-dUTP	No specific data.
		2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: respiratory tract irritation coughing
		10X aCGH Blocking Agent	Adverse symptoms may include the following: respiratory tract irritation coughing
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.		

Section 11. Toxicological information

Skin contact	:	☑ Nuclease Free Water	No specific data.
		Random Primers	No specific data.
		5X gDNA Reaction Buffer	Adverse symptoms may include the following: irritation redness
		Alu I	No specific data.
		Rsa I	No specific data.
		10X Restriction Enzyme Buffer	No specific data.
		BSA	No specific data.
		Exo(-) Klenow	No specific data.
		Cyanine-3-dUTP	No specific data.
		Cyanine-5-dUTP	No specific data.
		2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain or irritation redness blistering may occur
		10X aCGH Blocking Agent	Adverse symptoms may include the following: irritation redness
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.	
Ingestion	:	☑ Nuclease Free Water	No specific data.
		Random Primers	No specific data.
		5X gDNA Reaction Buffer	No specific data.
		Alu I	No specific data.
		Rsa I	No specific data.
		10X Restriction Enzyme Buffer	No specific data.
		BSA	No specific data.
		Exo(-) Klenow	No specific data.
		Cyanine-3-dUTP	No specific data.
		Cyanine-5-dUTP	No specific data.
		2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: stomach pains
		10X aCGH Blocking Agent	No specific data.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.	

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Section 11. Toxicological information

Teratogenicity	: <input checked="" type="checkbox"/> Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	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.
Developmental effects	: <input checked="" type="checkbox"/> Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	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.
Fertility effects	: <input checked="" type="checkbox"/> Nuclease Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP 2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	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.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Route	ATE value
Rsa I Oral	172414.5 mg/kg
10X Restriction Enzyme Buffer Oral	103448.3 mg/kg
2X HI-RPM Hybridization Buffer Oral	2546 mg/kg
Dermal	9381.9 mg/kg
Inhalation (dusts and mists)	16.33 mg/l
10X aCGH Blocking Agent Oral	25030 mg/kg

Other information

M uclease Free Water	Not available.
Random Primers	Not available.
5X gDNA Reaction Buffer	Adverse symptoms may include the following: May cause sensitization by skin contact.
Alu I	Not available.
Rsa I	Not available.
10X Restriction Enzyme Buffer	Not available.
BSA	Not available.
Exo(-) Klenow	Not available.
Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
2X HI-RPM Hybridization Buffer	Not available.
10X aCGH Blocking Agent	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Alu I Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Rsa I Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days

Section 12. Ecological information

10X Restriction Enzyme Buffer Sodium chloride	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
Exo(-) Klenow Glycerol	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
2X HI-RPM Hybridization Buffer Lithium chloride	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 112 mg/l Fresh water	Algae	72 hours
Polyoxyethylene octyl phenyl ether	Acute EC50 249 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 17000 µg/l Fresh water	Fish - Ptychocheilus lucius - Swim-up	96 hours
	Acute NOEC 25 mg/l Fresh water	Algae	72 hours
	Acute NOEC 63.4 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 59.4 mg/l Fresh water	Fish	96 hours
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
10X aCGH Blocking Agent Trometamol	EC50 28.2 mg/l	Algae	72 hours
	EC50 1.1 mg/l	Daphnia	48 hours
	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
5X gDNA Reaction Buffer 2-Mercaptoethanol	OECD 310 Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test)	69 % - Inherent - 60 days	20 mg/l	-
Alu I Glycerol	301D Ready Biodegradability -	93 % - 30 days	-	-

Section 12. Ecological information

Rsa I Glycerol	Closed Bottle Test	93 % - 30 days	-	-
Exo(-) Klenow Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease Free Water Water	-	-	Readily
2X HI-RPM Hybridization Buffer Lithium chloride	-	-	Readily
Polyoxyethylene octyl phenyl ether	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Nuclease Free Water Water	-1.38	-	low
5X gDNA Reaction Buffer 2-Mercaptoethanol	-0.056	-	low
Alu I Glycerol	-1.76	-	low
Rsa I Glycerol	-1.76	-	low
Exo(-) Klenow Glycerol	-1.76	-	low
2X HI-RPM Hybridization Buffer Polyoxyethylene octyl phenyl ether	4.86	-	high
10X aCGH Blocking Agent Trometamol	-1.56	-	low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

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

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 to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) PAIR:** Polyoxyethylene octyl phenyl ether
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: Edetic acid; Sodium hydroxide

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

Section 15. Regulatory information

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

Nuclease Free Water	Not applicable.
Random Primers	Not applicable.
5X gDNA Reaction Buffer	SKIN SENSITIZATION - Category 1
Alu I	EYE IRRITATION - Category 2B
Rsa I	EYE IRRITATION - Category 2A
10X Restriction Enzyme Buffer	Not applicable.
BSA	Not applicable.
Exo(-) Klenow	EYE IRRITATION - Category 2B
Cyanine-3-dUTP	Not applicable.
Cyanine-5-dUTP	Not applicable.
2X HI-RPM Hybridization Buffer	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2
10X aCGH Blocking Agent	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not applicable.

Composition/information on ingredients

Name	%	Classification
5X gDNA Reaction Buffer		
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-Mercaptoethanol	<1	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Alu I		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
Trisodium citrate	≤3	COMBUSTIBLE DUSTS
Rsa I		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
Sodium chloride	≤3	EYE IRRITATION - Category 2A

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10X Restriction Enzyme Buffer		
Sodium chloride	≤3	EYE IRRITATION - Category 2A
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Exo(-) Klenow		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
2X HI-RPM Hybridization Buffer		
Lithium chloride	≤12	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2 COMBUSTIBLE DUSTS
Dilithium N,N'-ethylenebis[N-(carboxymethyl)aminoacetate]	≤10	COMBUSTIBLE DUSTS
Polyoxyethylene octyl phenyl ether	≤6.3	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Lithium dodecyl sulphate	≤6.3	FLAMMABLE SOLIDS - Category 1 COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyloxy)-1-disiloxanyl]propyl] ether	≤1.9	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A
10X aCGH Blocking Agent		
Trometamol	≥10 - ≤25	COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - ≤25	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K		
Sodium silicate	≥90	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: 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

History

Date of issue	: 10/22/2018
Date of previous issue	: 08/15/2018
Version	: 4.1

Procedure used to derive the classification

Classification	Justification
5X gDNA Reaction Buffer SKIN SENSITIZATION - Category 1	Calculation method
Alu I EYE IRRITATION - Category 2B	Calculation method
Rsa I EYE IRRITATION - Category 2A	Calculation method
Exo(-) Klenow	

Section 16. Other information

EYE IRRITATION - Category 2B	Calculation method
2X HI-RPM Hybridization Buffer	
SKIN IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 3	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method
10X aCGH Blocking Agent	
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method

☑ Indicates information that has changed from previously issued version.

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Note *

: ***SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K:** This component is considered an article. Information provided is based on the encapsulated substance or mixture in this article.