

# SAFETY DATA SHEET



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

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

### 1.1 Product identifier

<b>Product name</b>	: SurePrint G3 CGH/CGH+SNP 4x180K Bundle, Part Number G5922A
<b>Part no. (chemical kit)</b>	: G5922A
<b>Part no.</b>	: <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

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

<b>Material uses</b>	: 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 lyophilised 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

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

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

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

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

**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

<b>Product definition</b>	:	<input checked="" type="checkbox"/> Nuclease Free Water	Mono-constituent 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)

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

##### 2X HI-RPM Hybridization Buffer

H315	SKIN CORROSION/IRRITATION - Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

##### 10X aCGH Blocking Agent

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

## SECTION 2: Hazards identification

<b>Ingredients of unknown toxicity</b>	: 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(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%
<b>Ingredients of unknown ecotoxicity</b>	: 5X 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%

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

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

### 2.2 Label elements

## SECTION 2: Hazards identification

**Hazard pictograms** : 2X HI-RPM Hybridization Buffer



10X aCGH Blocking Agent



**Signal word**

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

**Hazard statements**

: 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 No known significant effects or critical hazards.  
 Rsa I No known significant effects or critical hazards.  
 10X Restriction Enzyme Buffer No known significant effects or critical hazards.  
 BSA No known significant effects or critical hazards.  
 Exo(-) Klenow No known significant effects or critical hazards.  
 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 H319 - Causes serious eye irritation.  
 H315 - Causes skin irritation.  
 H412 - Harmful to aquatic life with long lasting effects.  
 H319 - Causes serious eye irritation.  
 10X aCGH Blocking Agent H315 - Causes skin irritation.  
 H335 - May cause respiratory 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 No known significant effects or critical hazards.

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

## SECTION 2: Hazards identification

arrays, 4x180K

### Precautionary statements

#### Prevention

: <input checked="" type="checkbox"/>	Nuclease Free Water	Not applicable.
	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	P280 - Wear protective gloves. Wear eye or face protection.
	10X aCGH Blocking Agent	P273 - Avoid release to the environment. P280 - Wear protective gloves. Wear eye or face protection.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	P261 - Avoid breathing dust. 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.

#### Response

: <input checked="" type="checkbox"/>	Nuclease Free Water	Not applicable.
	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	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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.
	10X aCGH Blocking Agent	Not applicable.
	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.

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

## SECTION 2: Hazards identification

<b>Storage</b>	:	<ul style="list-style-type: none"> <li>☑ Nuclease Free Water Not applicable.</li> <li>Random Primers Not applicable.</li> <li>5X gDNA Reaction Buffer Not applicable.</li> <li>Alu I Not applicable.</li> <li>Rsa I Not applicable.</li> <li>10X Restriction Enzyme Buffer Not applicable.</li> <li>BSA Not applicable.</li> <li>Exo(-) Klenow Not applicable.</li> <li>Cyanine-3-dUTP Not applicable.</li> <li>Cyanine-5-dUTP Not applicable.</li> <li>2X HI-RPM Hybridization Buffer Not applicable.</li> <li>10X aCGH Blocking Agent P405 - Store locked up.</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Not applicable.</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 Not applicable.</li> <li>SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K Not applicable.</li> </ul>
<b>Disposal</b>	:	<ul style="list-style-type: none"> <li>☑ Nuclease Free Water Not applicable.</li> <li>Random Primers Not applicable.</li> <li>5X gDNA Reaction Buffer Not applicable.</li> <li>Alu I Not applicable.</li> <li>Rsa I Not applicable.</li> <li>10X Restriction Enzyme Buffer Not applicable.</li> <li>BSA Not applicable.</li> <li>Exo(-) Klenow Not applicable.</li> <li>Cyanine-3-dUTP Not applicable.</li> <li>Cyanine-5-dUTP Not applicable.</li> <li>2X HI-RPM Hybridization Buffer P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>10X aCGH Blocking Agent P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Not applicable.</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 Not applicable.</li> <li>SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K Not applicable.</li> </ul>
<b>Hazardous ingredients</b>	:	<ul style="list-style-type: none"> <li>5X gDNA Reaction Buffer Not applicable.</li> <li>Rsa I Not applicable.</li> <li>10X Restriction Enzyme Buffer Not applicable.</li> <li>2X HI-RPM Hybridization Buffer Not applicable.</li> <li>10X aCGH Blocking Agent - Trometamol</li> <li>- 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</li> </ul>

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

## SECTION 2: Hazards identification

<b>Supplemental label elements</b>	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		Random Primers	Not applicable.
		5X gDNA Reaction Buffer	Contains 2-mercaptoethanol. May produce an allergic reaction. Safety data sheet available on request.
		Alu I	Not applicable.
		Rsa I	Safety data sheet available on request.
		10X Restriction Enzyme Buffer	Safety data sheet available on request.
		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 applicable.
		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.

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		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 applicable.
		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.

### Special packaging requirements

<b>Tactile warning of danger</b>	:	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
		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 Cyanine-5-dUTP	Not applicable.

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## SECTION 2: Hazards identification

2X HI-RPM Hybridization Buffer	Not applicable.
10X aCGH Blocking Agent	Not applicable.
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.

### 2.3 Other hazards

#### Other hazards which do not result in classification

<input checked="" type="checkbox"/> 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.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

<input checked="" type="checkbox"/> Nuclease Free Water	Mono-constituent 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)



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

### SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>Nuclease Free Water</b> Water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	[A]
<b>5X gDNA Reaction Buffer</b> 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
<b>Alu I</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
<b>Rsa I</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
<b>10X Restriction Enzyme Buffer</b> Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
<b>Exo(-) Klenow</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	EC: 231-212-3 CAS: 7447-41-8	≤12	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Polyoxyethylene octyl phenyl ether	CAS: 9002-93-1	≤6.4	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1] [5]
Lithium dodecyl sulphate	EC: 218-058-2 CAS: 2044-56-6	≤6.4	Flam. Sol. 1, H228 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412	[1]
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3, 3-tetramethyl-1-[(trimethylsilyl)oxy] -1-disiloxanyl]propyl] ether	CAS: 134180-76-0	≤3	Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
<b>10X aCGH Blocking Agent</b> Trometamol	EC: 201-064-4 CAS: 77-86-1	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]

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### SECTION 3: Composition/information on ingredients

2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≥10 - ≤25	STOT SE 3, H335 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335  <b>See Section 16 for the full text of the H statements declared above.</b>	[1]
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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.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Eye contact</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Random Primers	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.
	5X gDNA Reaction Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Alu I	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.
	Rsa I	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.
	10X Restriction Enzyme Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	BSA	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.
	Exo(-) Klenow	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.
	Cyanine-3-dUTP	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.
	Cyanine-5-dUTP	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	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.
	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.

**SECTION 4: First aid measures**

**Inhalation**

<p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</p> <p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</p> <p>SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K</p> <p><b>Nuclease Free Water</b></p> <p>Random Primers</p> <p>5X gDNA Reaction Buffer</p> <p>Alu I</p> <p>Rsa I</p> <p>10X Restriction Enzyme Buffer</p> <p>BSA</p> <p>Exo(-) Klenow</p> <p>Cyanine-3-dUTP</p> <p>Cyanine-5-dUTP</p> <p>2X HI-RPM Hybridization Buffer</p> <p>10X aCGH Blocking Agent</p>	<p>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. 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>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>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.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>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.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>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.</p> <p>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</p>
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**SECTION 4: First aid measures**

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.

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

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

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

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 medical attention if symptoms occur.

Exo(-) Klenow Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Cyanine-3-dUTP Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Cyanine-5-dUTP Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

2X HI-RPM Hybridization Buffer 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.

10X aCGH Blocking Agent 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.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

## SECTION 4: First aid measures

### Ingestion

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
: Nuclease Free Water	Wash out mouth with water. 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.
Random Primers	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.
5X gDNA Reaction 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.
Alu I	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.
Rsa I	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.
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 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-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

**SECTION 4: First aid measures**

2X HI-RPM Hybridization Buffer	material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove dentures if any. 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 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 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.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	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.

**Protection of first-aiders** :  Nuclease Free Water

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.
Alu I	No action shall be taken involving any personal risk or without suitable training.
Rsa I	No action shall be taken involving any personal risk or without suitable training.
10X Restriction Enzyme Buffer	No action shall be taken involving any personal risk or without suitable training.

## SECTION 4: First aid measures

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.
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 or without suitable training.
2X HI-RPM Hybridization 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.
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.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	:	☑ 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	No known significant effects or critical hazards.	
		Rsa I	No known significant effects or critical hazards.	
		10X Restriction Enzyme Buffer	No known significant effects or critical hazards.	
		BSA	No known significant effects or critical hazards.	
		Exo(-) Klenow	No known significant effects or critical hazards.	
		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 irritation.	
		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.	
	<b>Inhalation</b>	:	☑ 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	No known significant effects or critical hazards.	
		Rsa I	No known significant effects or critical hazards.	
		10X Restriction Enzyme Buffer	No known significant effects or critical hazards.	

**SECTION 4: First aid measures**

	BSA	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	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	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	May cause respiratory 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.
<b>Skin contact</b>	: 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	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	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 skin irritation.
	10X aCGH Blocking Agent	Causes skin 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.
<b>Ingestion</b>	: 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	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	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	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash	No known significant effects or critical hazards.



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

## SECTION 4: First aid measures

Buffer 2  
 SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K No known significant effects or critical hazards.

### Over-exposure signs/symptoms

#### Eye contact

: <input checked="" type="checkbox"/>	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:  pain or irritation 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

: <input checked="" type="checkbox"/>	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	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.

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

## SECTION 4: First aid measures

<b>Skin contact</b>	:	☑ 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: irritation redness
		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.
<b>Ingestion</b>	:	☑ 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.

### 4.3 Indication of any immediate medical attention and special treatment needed

## SECTION 4: First aid measures

<b>Notes to physician</b>	: 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 fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: 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.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	:	☑ 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	Use an extinguishing agent suitable for the surrounding fire.
		Hybridization Buffer	
		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.
<b>Unsuitable extinguishing media</b>	:	☑ 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	None known.
		Hybridization Buffer	
		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

<b>Hazards from the substance or mixture</b>	:	☑ 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

**SECTION 5: Firefighting measures**

	Rsa I	container may burst. 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.
<b>Hazardous combustion products</b>	☑ 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	Decomposition products may include the following materials:

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Hybridization Buffer	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


### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

☑ Nuclease Free Water	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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

## SECTION 5: Firefighting measures

### Special protective equipment for fire-fighters

<p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</p> <p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</p> <p>SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K</p> <p>:  Nuclease Free Water</p>	<p>taken involving any personal risk or without suitable training. 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>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>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>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</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. Clothing for fire-fighters (including helmets, protective boots and gloves)</p>

## SECTION 5: Firefighting measures

Cyanine-5-dUTP	conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
2X HI-RPM Hybridization Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
10X aCGH Blocking Agent	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	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 spilt 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 spilt material. 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 spilt material. Put on appropriate personal protective equipment.



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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 spilt material. 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 spilt 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 spilt material. Put on appropriate personal protective equipment.
Exo(-) Klenow	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
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 spilt 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 spilt 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 spilt material. Avoid breathing vapour 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 spilt 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 spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.

## SECTION 6: Accidental release measures

**For emergency responders**

: Nuclease Free Water	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Random Primers	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
5X gDNA Reaction Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Alu I	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Rsa I	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
10X Restriction Enzyme Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
BSA	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Exo(-) Klenow	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Cyanine-3-dUTP	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Cyanine-5-dUTP	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
2X HI-RPM Hybridization Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
10X aCGH Blocking Agent	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## SECTION 6: Accidental release measures

### 6.2 Environmental precautions

: Nuclease Free Water	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Random Primers	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
5X gDNA Reaction Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Alu I	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Rsa I	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X Restriction Enzyme Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
BSA	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Exo(-) Klenow	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cyanine-3-dUTP	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cyanine-5-dUTP	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
2X HI-RPM Hybridization Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
10X aCGH Blocking Agent	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ ChIP-on-Chip Wash Buffer 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ ChIP-on-Chip Wash Buffer 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## SECTION 6: Accidental release measures

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

<b>Methods for cleaning up</b>	<b>:</b>	<b>Nuclease Free Water</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		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.
		BSA	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

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Agilent Oligo aCGH/ ChIP-on-Chip Wash Buffer 1	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.
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, labelled waste container. Dispose of via a licensed waste disposal contractor.

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

## SECTION 7: Handling and storage

### Advice on general occupational hygiene

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 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.
Exo(-) Klenow	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

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

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

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

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



## SECTION 7: Handling and storage

	<p>prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Cyanine-5-dUTP	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
2X HI-RPM Hybridization Buffer	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
10X aCGH Blocking Agent	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental</p>

## SECTION 7: Handling and storage

contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

#### Recommendations

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

#### Industrial sector specific solutions

: <input checked="" type="checkbox"/>	Nuclease Free Water	Not applicable.
	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 applicable.
	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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>Alu I</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
<b>Rsa I</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
<b>Exo(-) Klenow</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist

#### Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

#### Appropriate engineering controls

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

#### Individual protection measures

##### Hygiene measures

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

##### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

##### Skin protection

##### Hand protection

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

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## SECTION 8: Exposure controls/personal protection

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:	☑ Nuclease Free Water	Liquid.	
		Random Primers	Liquid.	
		5X gDNA Reaction Buffer	Liquid.	
		Alu I	Liquid.	
		Rsa I	Liquid.	
		10X Restriction Enzyme Buffer	Liquid.	
		BSA	Liquid.	
		Exo(-) Klenow	Liquid.	
		Cyanine-3-dUTP	Liquid.	
		Cyanine-5-dUTP	Liquid.	
		2X HI-RPM	Liquid.	
		Hybridization Buffer		
		10X aCGH Blocking Agent	Solid. [lyophilised pellets]	
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Liquid.	
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Liquid.	
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Solid.	
	<b>Colour</b>	:	☑ Nuclease Free Water	Colourless.
			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	Not available.	
		Hybridization Buffer		
		10X aCGH Blocking	Not available.	

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	Agent	
	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.
<b>Odour</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	Odourless.
	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	Not available.
	Hybridization Buffer	
	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.
<b>Odour threshold</b>	: <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	Not available.
	Hybridization Buffer	
	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	Not available.

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## SECTION 9: Physical and chemical properties

		CGH+SNP arrays, 4x180K	
<b>pH</b>	:	<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	7 8 7.5  7.4 7.4 7.9  Not available. 7.5 Not available. Not available. 6.1  Not available.  8.2 to 8.6  8 to 8.4  Not available.
<b>Melting point/freezing point</b>	:	<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	0°C 0°C 0°C  Not available. Not available. Not available.  0°C Not available. 0°C 0°C Not available.  Not available.  0°C  0°C  Not available.

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<b>Initial boiling point and boiling range</b>	:	☑ Nuclease Free Water	100°C	
		Random Primers	100°C	
		5X gDNA Reaction Buffer	100°C	
		Alu I	Not available.	
		Rsa I	Not available.	
		10X Restriction Enzyme Buffer	Not available.	
		BSA	100°C	
		Exo(-) Klenow	Not available.	
		Cyanine-3-dUTP	100°C	
		Cyanine-5-dUTP	100°C	
		2X HI-RPM	Not available.	
		Hybridization Buffer		
		10X aCGH Blocking Agent	Not available.	
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	100°C	
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	100°C	
		SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.	
	<b>Flash point</b>	:	☑ 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	Not available.	
		Hybridization Buffer		
		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.	
<b>Evaporation rate</b>		:	☑ 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.

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**SECTION 9: Physical and chemical properties**

	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	2X HI-RPM	Not available.
	Hybridization Buffer	
	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.
<b>Flammability (solid, gas)</b>	<b>:</b> Nuclease Free Water	Not applicable.
	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	Not applicable.
	Hybridization Buffer	
	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.
<b>Upper/lower flammability or explosive limits</b>	<b>:</b> 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	Not available.
	Hybridization Buffer	
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.



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	Buffer 1	
	Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.
	Buffer 2	
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
<b>Vapour pressure</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	3.2 kPa [room temperature]
	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	Not available.
	Hybridization Buffer	
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.
	Buffer 1	
	Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.
	Buffer 2	
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
<b>Vapour density</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	0.62 [Air = 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	Not available.
	Hybridization Buffer	
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.
	Buffer 1	
	Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.
	Buffer 2	
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

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## SECTION 9: Physical and chemical properties

<b>Relative density</b>	: <input checked="" type="checkbox"/> 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.
<b>Solubility(ies)</b>	: <input checked="" type="checkbox"/> 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.

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## SECTION 9: Physical and chemical properties

<b>Partition coefficient: n-octanol/water</b>	:	<input checked="" type="checkbox"/> 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.		
		2X HI-RPM	Not available.		
		Hybridization Buffer			
		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.		
		<b>Auto-ignition temperature</b>	:	<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	Not available.				
Hybridization Buffer					
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.				
<b>Decomposition temperature</b>	:			<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.		

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	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	2X HI-RPM	Not available.
	Hybridization Buffer	
	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.
<b>Viscosity</b>	<b>:</b> 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	Not available.
	Hybridization Buffer	
	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.
<b>Explosive properties</b>	<b>:</b> 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	Not available.
	Hybridization Buffer	
	10X aCGH Blocking Agent	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.

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## SECTION 9: Physical and chemical properties

### Oxidising properties

Buffer 1	
Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.
Buffer 2	
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.
☑ 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	Not available.
Hybridization Buffer	
10X aCGH Blocking Agent	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.
Buffer 1	
Agilent Oligo aCGH/ChIP-on-Chip Wash	Not available.
Buffer 2	
SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

☑ Nuclease Free Water	No specific test data related to reactivity available for this product or its ingredients.
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	No specific test data related to reactivity available for this

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## SECTION 10: Stability and reactivity

Buffer	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

☑ 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.

### 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	Under normal conditions of storage and use, hazardous

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## SECTION 10: Stability and reactivity

Agent	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.

<b>10.4 Conditions to avoid</b>	:	<ul style="list-style-type: none"> <li>☒ Nuclease Free Water</li> <li>Random Primers</li> <li>5X gDNA Reaction Buffer</li> <li>Alu I</li> <li>Rsa I</li> <li>10X Restriction Enzyme Buffer</li> <li>BSA</li> <li>Exo(-) Klenow</li> <li>Cyanine-3-dUTP</li> <li>Cyanine-5-dUTP</li> <li>2X HI-RPM Hybridization Buffer</li> <li>10X aCGH Blocking Agent</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</li> <li>SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K</li> </ul>	<ul style="list-style-type: none"> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> </ul>
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<b>10.5 Incompatible materials</b>	:	<ul style="list-style-type: none"> <li>☒ Nuclease Free Water</li> <li>Random Primers</li> <li>5X gDNA Reaction Buffer</li> <li>Alu I</li> <li>Rsa I</li> <li>10X Restriction Enzyme Buffer</li> <li>BSA</li> <li>Exo(-) Klenow</li> <li>Cyanine-3-dUTP</li> <li>Cyanine-5-dUTP</li> <li>2X HI-RPM Hybridization Buffer</li> <li>10X aCGH Blocking Agent</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</li> <li>SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K</li> </ul>	<ul style="list-style-type: none"> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> <li>May react or be incompatible with oxidising materials.</li> </ul>
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## SECTION 10: Stability and reactivity

<b>10.6 Hazardous decomposition products</b>	: 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.
	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
<b>Rsa I</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
<b>10X Restriction Enzyme Buffer</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	LC50 Inhalation Dusts and mists	Rat	>5.57 mg/l	4 hours
	LD50 Dermal	Rabbit	1629 mg/kg	-
	LD50 Dermal	Rat	1488 mg/kg	-
	LD50 Oral	Rat	526 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	>5000 mg/kg	-
Lithium dodecyl sulphate	LC50 Inhalation Dusts and mists	Rat	1.08 mg/l	4 hours
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyloxy)-1-disiloxany]propyl] ether	LD50 Dermal	Rabbit	1550 mg/kg	-



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## SECTION 11: Toxicological information

10X aCGH Blocking Agent Trometamol	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

### Acute toxicity estimates

Route	ATE value
<b>5X gDNA Reaction Buffer</b> Oral Dermal Inhalation (vapours)	61000 mg/kg 41775 mg/kg 500 mg/l
<b>2X HI-RPM Hybridization Buffer</b> Oral Dermal Inhalation (dusts and mists)	2583.6 mg/kg 9381.9 mg/kg 16.33 mg/l

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Rsa I</b> Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>10X Restriction Enzyme Buffer</b> Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>2X HI-RPM Hybridization Buffer</b> 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	-	-	-
<b>10X aCGH Blocking Agent</b> Trometamol	Skin - Moderate irritant	Rabbit	-	25 Percent	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-

### Sensitiser

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## SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result
<b>2X HI-RPM Hybridization Buffer</b> Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyloxy)-1-disiloxanyl]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)

Product/ingredient name	Category	Route of exposure	Target organs
<b>5X gDNA Reaction Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
<b>10X Restriction Enzyme Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
<b>2X HI-RPM Hybridization Buffer</b> Lithium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
<b>10X aCGH Blocking Agent</b> Trometamol	Category 3	Not applicable.	Respiratory tract irritation
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Reverse Transcriptase	Not available.
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.

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## SECTION 11: Toxicological information

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

#### Inhalation

: 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	No known significant effects or critical hazards.
Rsa I	No known significant effects or critical hazards.
10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
BSA	No known significant effects or critical hazards.
Exo(-) Klenow	No known significant effects or critical hazards.
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	No known significant effects or critical hazards.
10X aCGH Blocking Agent	May cause respiratory 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.

#### Ingestion

: 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	No known significant effects or critical hazards.
Rsa I	No known significant effects or critical hazards.
10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
BSA	No known significant effects or critical hazards.
Exo(-) Klenow	No known significant effects or critical hazards.
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	No known significant effects or critical hazards.
10X aCGH Blocking Agent	No known significant effects or critical hazards.
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

<b>Skin contact</b>	:	☑ 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	No known significant effects or critical hazards.
		Rsa I	No known significant effects or critical hazards.
		10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
		BSA	No known significant effects or critical hazards.
		Exo(-) Klenow	No known significant effects or critical hazards.
		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 skin irritation.
		10X aCGH Blocking Agent	Causes skin 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.

<b>Eye contact</b>	:	☑ 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	No known significant effects or critical hazards.
		Rsa I	No known significant effects or critical hazards.
		10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
		BSA	No known significant effects or critical hazards.
		Exo(-) Klenow	No known significant effects or critical hazards.
		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 irritation.
		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.

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

<b>Inhalation</b>	:	☑ 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	No specific data.

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	Buffer	
	10X aCGH Blocking Agent	Adverse symptoms may include the following:  respiratory tract irritation coughing 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.
<b>Ingestion</b>	: 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.
<b>Skin contact</b>	: 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:  irritation redness
	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.

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## SECTION 11: Toxicological information

	Buffer 2	
	SurePrint G3 CGH+SNP or Cancer CGH+SNP arrays, 4x180K	No specific data.
<b>Eye contact</b>	: 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: pain or irritation 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.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: 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	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	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	No known significant effects or critical hazards.

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	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	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.
<b>Carcinogenicity</b>	: <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	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	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	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	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.
<b>Mutagenicity</b>	: <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	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	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	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	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

<b>Teratogenicity</b>	: 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	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	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	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	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.
	<b>Developmental effects</b>	: Nuclease Free Water
Random Primers		No known significant effects or critical hazards.
5X gDNA Reaction Buffer		No known significant effects or critical hazards.
Alu I		No known significant effects or critical hazards.
Rsa I		No known significant effects or critical hazards.
10X Restriction Enzyme Buffer		No known significant effects or critical hazards.
BSA		No known significant effects or critical hazards.
Exo(-) Klenow		No known significant effects or critical hazards.
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		No known significant effects or critical hazards.
10X aCGH Blocking Agent		No known significant effects or critical hazards.
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.
<b>Fertility effects</b>		: Nuclease Free Water
	Random Primers	No known significant effects or critical hazards.
	5X gDNA Reaction Buffer	No known significant effects or critical hazards.
	Alu I	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	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	No known significant effects or critical hazards.
	10X aCGH Blocking	No known significant effects or critical hazards.



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## SECTION 11: Toxicological information

	Agent	
	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.
<b>Other information</b>	<input checked="" type="checkbox"/> Nuclease Free Water	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Adverse symptoms may include the following: May cause sensitisation 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
<b>Rsa I</b> 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
<b>10X Restriction Enzyme Buffer</b> Sodium chloride	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
	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris	48 hours

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## SECTION 12: Ecological information

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

### 12.2 Persistence and degradability

Not available.

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

### 12.3 Bioaccumulative potential

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## SECTION 12: Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Nuclease Free Water</b> Water	-1.38	-	low
<b>2X HI-RPM Hybridization Buffer</b> Polyoxyethylene octyl phenyl ether	4.86	-	high
<b>10X aCGH Blocking Agent</b> Trometamol	-1.56	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

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

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

#### Packaging

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

**Special precautions** : 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

**ADR/RID / IMDG / IATA** : Not regulated.

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

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

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## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

##### Annex XIV

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
<input checked="" type="checkbox"/> 2X HI-RPM Hybridization Buffer Polyoxyethylene octyl phenyl ether	Substance of equivalent concern for environment	Listed	42	7/3/2017

##### Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
<input checked="" type="checkbox"/> 2X HI-RPM Hybridization Buffer Polyoxyethylene octyl phenyl ether	Substance of equivalent concern for environment	Recommended	ED/169/2012	2/10/2014

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	<input checked="" type="checkbox"/> Nuclease Free Water	Not applicable.
	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 applicable.
	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.

#### Other EU regulations

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

##### Seveso Directive

This product is not controlled under the Seveso Directive.

#### 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

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## SECTION 15: Regulatory information

Not listed.

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

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

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

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<b>Classification</b>	<b>Justification</b>
<b>2X HI-RPM Hybridization Buffer</b> Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method
<b>10X aCGH Blocking Agent</b> Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	Calculation method Calculation method Calculation method

### Full text of abbreviated H statements

**Date of issue/Date of revision** : 22/10/2018

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## SECTION 16: Other information

### 5X gDNA Reaction Buffer

H315  
H319  
H335

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

### Rsa I

H319

Causes serious eye irritation.

### 10X Restriction Enzyme Buffer

H315  
H319  
H335

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

### 2X HI-RPM Hybridization Buffer

H228  
H302  
H312  
H315  
H318  
H319  
H332  
H335  
H411  
H412

Flammable solid.  
Harmful if swallowed.  
Harmful in contact with skin.  
Causes skin irritation.  
Causes serious eye damage.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause respiratory irritation.  
Toxic to aquatic life with long lasting effects.  
Harmful to aquatic life with long lasting effects.

### 10X aCGH Blocking Agent

H315  
H319  
H335

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

### [Full text of classifications \[CLP/GHS\]](#)

### 5X gDNA Reaction Buffer

Eye Irrit. 2, H319  
Skin Irrit. 2, H315  
STOT SE 3, H335

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Respiratory tract irritation) - Category 3

### Rsa I

Eye Irrit. 2, H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

### 10X Restriction Enzyme Buffer

Eye Irrit. 2, H319  
Skin Irrit. 2, H315  
STOT SE 3, H335

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Respiratory tract irritation) - Category 3

### 2X HI-RPM Hybridization Buffer

Acute Tox. 4, H302  
Acute Tox. 4, H312  
Acute Tox. 4, H332  
Aquatic Chronic 2, H411  
Aquatic Chronic 3, H412  
Eye Dam. 1, H318  
Eye Irrit. 2, H319  
Flam. Sol. 1, H228  
Skin Irrit. 2, H315  
STOT SE 3, H335

ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (dermal) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2  
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
FLAMMABLE SOLIDS - Category 1  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Respiratory tract irritation) - Category 3

### 10X aCGH Blocking Agent

Eye Irrit. 2, H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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## SECTION 16: Other information

Skin Irrit. 2, H315  
STOT SE 3, H335

SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Respiratory tract irritation) - Category 3

**Date of issue/ Date of revision** : 22/10/2018

**Date of previous issue** : 15/08/2018

**Version** : 2.1

**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.

### Notice to reader

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