

# SAFETY DATA SHEET

Agilent NGS FFPE QC Kit, 96 Reactions, Part Number G9700B

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

### 1.1 Product identifier

<b>Product name</b>	: Agilent NGS FFPE QC Kit, 96 Reactions, Part Number G9700B	
<b>Part No. (Kit)</b>	: G9700B	
<b>Part No.</b>	: Primer Set A, 42 bp	5190-9352
	: Primer Set B, 123 bp	5190-9353
	: DNA Standard 1	5190-9354
	: DNA Standard 2	5190-9355
	: DNA Standard 3	5190-9356
	: DNA Standard 4	5190-9357
	: DNA Standard 5	5190-9358
	: Reference DNA	5190-9359
	: 2X Brilliant III SYBR®	600882-51
	: Green QPCR Master Mix	
	: Reference Dye	600530-53

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

Identified uses	
Analytical chemistry.	
Primer Set A, 42 bp	0.66 ml
Primer Set B, 123 bp	0.45 ml
DNA Standard 1	0.18 ml
DNA Standard 2	0.18 ml
DNA Standard 3	0.18 ml
DNA Standard 4	0.18 ml
DNA Standard 5	0.18 ml
Reference DNA	0.36 ml
2X Brilliant III SYBR® Green QPCR Master Mix	10 ml (2 ml x 5 vials)
Reference Dye	0.1 ml

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

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	: Primer Set A, 42 bp	Mixture
	: Primer Set B, 123 bp	Mixture
	: DNA Standard 1	Mixture
	: DNA Standard 2	Mixture
	: DNA Standard 3	Mixture
	: DNA Standard 4	Mixture
	: DNA Standard 5	Mixture

**Date of issue/Date of revision** : 10/06/2015

## SECTION 2: Hazards identification

Reference DNA	Mixture
2X Brilliant III SYBR®	Mixture
Green QPCR Master Mix	
Reference Dye	Mixture

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

Not classified.

<b>Ingredients of unknown ecotoxicity</b>	:	Primer Set A, 42 bp	Not applicable.
		Primer Set B, 123 bp	Not applicable.
		DNA Standard 1	Not applicable.
		DNA Standard 2	Not applicable.
		DNA Standard 3	Not applicable.
		DNA Standard 4	Not applicable.
		DNA Standard 5	Not applicable.
		Reference DNA	Not applicable.
		2X Brilliant III SYBR®	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 16%
		Green QPCR Master Mix	
		Reference Dye	Not applicable.

### Classification according to Directive 1999/45/EC [DPD]

Primer Set A, 42 bp	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
Primer Set B, 123 bp	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
DNA Standard 1	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
DNA Standard 2	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
DNA Standard 3	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
DNA Standard 4	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
DNA Standard 5	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
Reference DNA	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
2X Brilliant III SYBR® Green QPCR Master Mix	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
Reference Dye	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

<b>Classification</b>	:	Primer Set A, 42 bp	Not classified.
		Primer Set B, 123 bp	Not classified.
		DNA Standard 1	Not classified.
		DNA Standard 2	Not classified.
		DNA Standard 3	Not classified.
		DNA Standard 4	Not classified.
		DNA Standard 5	Not classified.
		Reference DNA	Not classified.
		2X Brilliant III SYBR®	Not classified.
		Green QPCR Master Mix	
		Reference Dye	Not classified.

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

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

## 2.2 Label elements

<b>Signal word</b>	:	Primer Set A, 42 bp	No signal word.
		Primer Set B, 123 bp	No signal word.
		DNA Standard 1	No signal word.
		DNA Standard 2	No signal word.
		DNA Standard 3	No signal word.
		DNA Standard 4	No signal word.
		DNA Standard 5	No signal word.

**SECTION 2: Hazards identification**

	Reference DNA	No signal word.
	2X Brilliant III SYBR®	No signal word.
	Green QPCR Master Mix	
	Reference Dye	No signal word.
<b>Hazard statements</b>	: Primer Set A, 42 bp	No known significant effects or critical hazards.
	Primer Set B, 123 bp	No known significant effects or critical hazards.
	DNA Standard 1	No known significant effects or critical hazards.
	DNA Standard 2	No known significant effects or critical hazards.
	DNA Standard 3	No known significant effects or critical hazards.
	DNA Standard 4	No known significant effects or critical hazards.
	DNA Standard 5	No known significant effects or critical hazards.
	Reference DNA	No known significant effects or critical hazards.
	2X Brilliant III SYBR®	No known significant effects or critical hazards.
	Green QPCR Master Mix	
	Reference Dye	No known significant effects or critical hazards.

**Precautionary statements**

<b>Prevention</b>	: Primer Set A, 42 bp	Not applicable.
	Primer Set B, 123 bp	Not applicable.
	DNA Standard 1	Not applicable.
	DNA Standard 2	Not applicable.
	DNA Standard 3	Not applicable.
	DNA Standard 4	Not applicable.
	DNA Standard 5	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.

<b>Response</b>	: Primer Set A, 42 bp	Not applicable.
	Primer Set B, 123 bp	Not applicable.
	DNA Standard 1	Not applicable.
	DNA Standard 2	Not applicable.
	DNA Standard 3	Not applicable.
	DNA Standard 4	Not applicable.
	DNA Standard 5	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.

<b>Storage</b>	: Primer Set A, 42 bp	Not applicable.
	Primer Set B, 123 bp	Not applicable.
	DNA Standard 1	Not applicable.
	DNA Standard 2	Not applicable.
	DNA Standard 3	Not applicable.
	DNA Standard 4	Not applicable.
	DNA Standard 5	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.

<b>Disposal</b>	: Primer Set A, 42 bp	Not applicable.
	Primer Set B, 123 bp	Not applicable.
	DNA Standard 1	Not applicable.
	DNA Standard 2	Not applicable.
	DNA Standard 3	Not applicable.
	DNA Standard 4	Not applicable.
	DNA Standard 5	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.

**Hazardous ingredients** : No hazardous ingredient

## SECTION 2: Hazards identification

<b>Supplemental label elements</b>	<b>:</b> Primer Set A, 42 bp	Not applicable.
	Primer Set B, 123 bp	Not applicable.
	DNA Standard 1	Not applicable.
	DNA Standard 2	Not applicable.
	DNA Standard 3	Not applicable.
	DNA Standard 4	Not applicable.
	DNA Standard 5	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Special packaging requirements**

### Special packaging requirements

<b>Tactile warning of danger</b>	<b>:</b> Primer Set A, 42 bp	Not applicable.
	Primer Set B, 123 bp	Not applicable.
	DNA Standard 1	Not applicable.
	DNA Standard 2	Not applicable.
	DNA Standard 3	Not applicable.
	DNA Standard 4	Not applicable.
	DNA Standard 5	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.

### 2.3 Other hazards

<b>Other hazards which do not result in classification</b>	<b>:</b> Primer Set A, 42 bp	None known.
	Primer Set B, 123 bp	None known.
	DNA Standard 1	None known.
	DNA Standard 2	None known.
	DNA Standard 3	None known.
	DNA Standard 4	None known.
	DNA Standard 5	None known.
	Reference DNA	None known.
	2X Brilliant III SYBR®	None known.
	Green QPCR Master Mix	
	Reference Dye	None known.

## SECTION 3: Composition/information on ingredients

<b>3.2 Mixtures</b>	<b>:</b> Primer Set A, 42 bp	Mixture
	Primer Set B, 123 bp	Mixture
	DNA Standard 1	Mixture
	DNA Standard 2	Mixture
	DNA Standard 3	Mixture
	DNA Standard 4	Mixture
	DNA Standard 5	Mixture
	Reference DNA	Mixture
	2X Brilliant III SYBR® Green	Mixture
	QPCR Master Mix	
	Reference Dye	Mixture

### Product/ingredient name

No hazardous ingredient

**SECTION 3: Composition/information on ingredients**

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit 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

**SECTION 4: First aid measures****4.1 Description of first aid measures**

<b>Eye contact</b>	: Primer Set A, 42 bp	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.
	Primer Set B, 123 bp	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.
	DNA Standard 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	DNA Standard 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	DNA Standard 3	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.
	DNA Standard 4	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.
	DNA Standard 5	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.
	Reference DNA	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 Brilliant III SYBR® Green QPCR Master Mix	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.
	Reference Dye	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.
<b>Inhalation</b>	: Primer Set A, 42 bp	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Primer Set B, 123 bp	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 5	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**SECTION 4: First aid measures**

	Reference DNA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	2X Brilliant III SYBR® Green QPCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Reference Dye	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: Primer Set A, 42 bp	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Primer Set B, 123 bp	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 5	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Reference DNA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	2X Brilliant III SYBR® Green QPCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Primer Set A, 42 bp	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.
	Primer Set B, 123 bp	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.
	DNA Standard 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.
	DNA Standard 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.
	DNA Standard 3	Wash out mouth with water. Remove victim to fresh air and

**SECTION 4: First aid measures**

	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. 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.
DNA Standard 4	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.
DNA Standard 5	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.
Reference DNA	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
2X Brilliant III SYBR® Green QPCR Master Mix	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.
Reference Dye	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.
<b>Protection of first-aiders</b> :	
Primer Set A, 42 bp	No action shall be taken involving any personal risk or without suitable training.
Primer Set B, 123 bp	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 1	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 2	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 3	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 4	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 5	No action shall be taken involving any personal risk or without suitable training.
Reference DNA	No action shall be taken involving any personal risk or without suitable training.
2X Brilliant III SYBR® Green QPCR Master Mix	No action shall be taken involving any personal risk or without suitable training.
Reference Dye	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

**SECTION 4: First aid measures**

<b>Eye contact</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
<b>Inhalation</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
<b>Skin contact</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
<b>Ingestion</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.	

**Over-exposure signs/symptoms**

<b>Eye contact</b>	:	Primer Set A, 42 bp	No specific data.
		Primer Set B, 123 bp	No specific data.
		DNA Standard 1	No specific data.
		DNA Standard 2	No specific data.
		DNA Standard 3	No specific data.
		DNA Standard 4	No specific data.
		DNA Standard 5	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	No specific data.
	Reference Dye	No specific data.	



## SECTION 4: First aid measures

<b>Inhalation</b>	:	Primer Set A, 42 bp	No specific data.
		Primer Set B, 123 bp	No specific data.
		DNA Standard 1	No specific data.
		DNA Standard 2	No specific data.
		DNA Standard 3	No specific data.
		DNA Standard 4	No specific data.
		DNA Standard 5	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	
	Reference Dye	No specific data.	
<b>Skin contact</b>	:	Primer Set A, 42 bp	No specific data.
		Primer Set B, 123 bp	No specific data.
		DNA Standard 1	No specific data.
		DNA Standard 2	No specific data.
		DNA Standard 3	No specific data.
		DNA Standard 4	No specific data.
		DNA Standard 5	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	
	Reference Dye	No specific data.	
<b>Ingestion</b>	:	Primer Set A, 42 bp	No specific data.
		Primer Set B, 123 bp	No specific data.
		DNA Standard 1	No specific data.
		DNA Standard 2	No specific data.
		DNA Standard 3	No specific data.
		DNA Standard 4	No specific data.
		DNA Standard 5	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	
	Reference Dye	No specific data.	

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

<b>Notes to physician</b>	:	Primer Set A, 42 bp	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Primer Set B, 123 bp	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 5	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Reference DNA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		2X Brilliant III SYBR®	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Green QPCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Reference Dye	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
<b>Specific treatments</b>	:	Primer Set A, 42 bp	No specific treatment.
		Primer Set B, 123 bp	No specific treatment.
		DNA Standard 1	No specific treatment.
		DNA Standard 2	No specific treatment.
		DNA Standard 3	No specific treatment.
		DNA Standard 4	No specific treatment.
		DNA Standard 5	No specific treatment.
	Reference DNA	No specific treatment.	

## SECTION 4: First aid measures

2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific treatment.  No specific treatment.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Primer Set A, 42 bp	Use an extinguishing agent suitable for the surrounding fire.
	Primer Set B, 123 bp	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 1	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 2	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 3	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 4	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 5	Use an extinguishing agent suitable for the surrounding fire.
	Reference DNA	Use an extinguishing agent suitable for the surrounding fire.
	2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire.
	<b>Unsuitable extinguishing media</b>	: Primer Set A, 42 bp
Primer Set B, 123 bp		None known.
DNA Standard 1		None known.
DNA Standard 2		None known.
DNA Standard 3		None known.
DNA Standard 4		None known.
DNA Standard 5		None known.
Reference DNA		None known.
2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye		None known.  None known.

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

<b>Hazards from the substance or mixture</b>	: Primer Set A, 42 bp	In a fire or if heated, a pressure increase will occur and the container may burst.
	Primer Set B, 123 bp	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 4	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 5	In a fire or if heated, a pressure increase will occur and the container may burst.
	Reference DNA	In a fire or if heated, a pressure increase will occur and the container may burst.
	2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.  In a fire or if heated, a pressure increase will occur and the container may burst.
	<b>Hazardous combustion products</b>	: Primer Set A, 42 bp
Primer Set B, 123 bp		No specific data.
DNA Standard 1		No specific data.
DNA Standard 2		No specific data.
DNA Standard 3		No specific data.
DNA Standard 4		No specific data.
DNA Standard 5		No specific data.
Reference DNA		No specific data.
2X Brilliant III SYBR® Green QPCR Master Mix		Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

**SECTION 5: Firefighting measures**

		halogenated compounds
	Reference Dye	metal oxide/oxides
		No specific data.

**5.3 Advice for firefighters**

**Special precautions for fire-fighters**

	: Primer Set A, 42 bp	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.
	Primer Set B, 123 bp	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.
	DNA Standard 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	DNA Standard 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	DNA Standard 3	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.
	DNA Standard 4	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.
	DNA Standard 5	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.
	Reference DNA	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 Brilliant III SYBR® Green QPCR Master Mix	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.
	Reference Dye	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**

	: Primer Set A, 42 bp	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.
	Primer Set B, 123 bp	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.
	DNA Standard 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.
	DNA Standard 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.
	DNA Standard 3	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)

## SECTION 5: Firefighting measures

DNA Standard 4	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.
DNA Standard 5	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.
Reference DNA	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 Brilliant III SYBR® Green QPCR Master Mix	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.
Reference Dye	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.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: Primer Set A, 42 bp	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	Primer Set B, 123 bp	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	DNA Standard 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	DNA Standard 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	DNA Standard 3	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	DNA Standard 4	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

**SECTION 6: Accidental release measures**

DNA Standard 5	Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Reference DNA	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 Brilliant III SYBR® Green QPCR Master Mix	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.
Reference Dye	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.
<b>For emergency responders</b> : Primer Set A, 42 bp	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".
Primer Set B, 123 bp	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".
DNA Standard 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".
DNA Standard 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".
DNA Standard 3	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".
DNA Standard 4	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".
DNA Standard 5	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".
Reference DNA	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 Brilliant III SYBR® Green QPCR Master Mix	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".
Reference Dye	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**

<b>6.2 Environmental precautions</b>	: Primer Set A, 42 bp	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Primer Set B, 123 bp	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 3	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 4	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 5	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Reference DNA	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	2X Brilliant III SYBR® Green QPCR Master Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Reference Dye	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

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

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

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

<b>Protective measures</b>	: Primer Set A, 42 bp	Put on appropriate personal protective equipment (see Section 8).
	Primer Set B, 123 bp	Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 1	Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 2	Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 3	Put on appropriate personal protective equipment (see Section 8).

**SECTION 7: Handling and storage**

	DNA Standard 4	Section 8). Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 5	Put on appropriate personal protective equipment (see Section 8).
	Reference DNA	Put on appropriate personal protective equipment (see Section 8).
	2X Brilliant III SYBR® Green QPCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: Primer Set A, 42 bp	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.
	Primer Set B, 123 bp	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.
	DNA Standard 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.
	DNA Standard 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.
	DNA Standard 3	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.
	DNA Standard 4	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.
	DNA Standard 5	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.
	Reference DNA	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	2X Brilliant III SYBR® Green QPCR Master Mix	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 7: Handling and storage**

Reference Dye

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

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

: Primer Set A, 42 bp

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.

Primer Set B, 123 bp

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.

DNA Standard 1

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

DNA Standard 2

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

DNA Standard 3

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.

DNA Standard 4

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.

DNA Standard 5

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and



## SECTION 7: Handling and storage

	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.
Reference DNA	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.
2X Brilliant III SYBR® Green QPCR Master Mix	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.
Reference Dye	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.

### 7.3 Specific end use(s)

<b>Recommendations</b>	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
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**Industrial sector specific solutions** : Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**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

## SECTION 8: Exposure controls/personal protection

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 available.

### PNECs

No PNECs available.

## 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

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

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

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**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** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**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

**Physical state** :

Primer Set A, 42 bp	Liquid.
Primer Set B, 123 bp	Liquid.
DNA Standard 1	Liquid.
DNA Standard 2	Liquid.
DNA Standard 3	Liquid.
DNA Standard 4	Liquid.
DNA Standard 5	Liquid.
Reference DNA	Liquid.
2X Brilliant III SYBR®	Liquid.
Green QPCR Master Mix	

**SECTION 9: Physical and chemical properties**

	Reference Dye	Liquid.
<b>Colour</b>	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
<b>Odour</b>	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
<b>Odour threshold</b>	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
<b>pH</b>	: Primer Set A, 42 bp	7.8
	Primer Set B, 123 bp	7.8
	DNA Standard 1	7.8
	DNA Standard 2	7.8
	DNA Standard 3	7.8
	DNA Standard 4	7.8
	DNA Standard 5	7.8
	Reference DNA	7.8
	2X Brilliant III SYBR®	7.8
	Green QPCR Master Mix	
	Reference Dye	8
<b>Melting point/freezing point</b>	: Primer Set A, 42 bp	0°C
	Primer Set B, 123 bp	0°C
	DNA Standard 1	0°C
	DNA Standard 2	0°C
	DNA Standard 3	0°C
	DNA Standard 4	0°C
	DNA Standard 5	0°C
	Reference DNA	0°C
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	0°C

**SECTION 9: Physical and chemical properties**

<b>Initial boiling point and boiling range</b>	:	Primer Set A, 42 bp	100°C
		Primer Set B, 123 bp	100°C
		DNA Standard 1	100°C
		DNA Standard 2	100°C
		DNA Standard 3	100°C
		DNA Standard 4	100°C
		DNA Standard 5	100°C
		Reference DNA	100°C
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
	Reference Dye	100°C	
<b>Flash point</b>	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
	Reference Dye	Not available.	
<b>Evaporation rate</b>	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
	Reference Dye	Not available.	
<b>Flammability (solid, gas)</b>	:	Primer Set A, 42 bp	Not applicable.
		Primer Set B, 123 bp	Not applicable.
		DNA Standard 1	Not applicable.
		DNA Standard 2	Not applicable.
		DNA Standard 3	Not applicable.
		DNA Standard 4	Not applicable.
		DNA Standard 5	Not applicable.
		Reference DNA	Not applicable.
		2X Brilliant III SYBR®	Not applicable.
		Green QPCR Master Mix	
	Reference Dye	Not applicable.	
<b>Upper/lower flammability or explosive limits</b>	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
	Reference Dye	Not available.	

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<b>Vapour pressure</b>	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
		Reference Dye	Not available.
<b>Vapour density</b>	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
		Reference Dye	Not available.
<b>Relative density</b>	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
		Reference Dye	Not available.
<b>Solubility(ies)</b>	:	Primer Set A, 42 bp	Easily soluble in the following materials: cold water and hot water.
		Primer Set B, 123 bp	Easily soluble in the following materials: cold water and hot water.
		DNA Standard 1	Easily soluble in the following materials: cold water and hot water.
		DNA Standard 2	Easily soluble in the following materials: cold water and hot water.
		DNA Standard 3	Easily soluble in the following materials: cold water and hot water.
		DNA Standard 4	Easily soluble in the following materials: cold water and hot water.
		DNA Standard 5	Easily soluble in the following materials: cold water and hot water.
		Reference DNA	Easily soluble in the following materials: cold water and hot water.
		2X Brilliant III SYBR®	Soluble in the following materials: cold water and hot water.
		Green QPCR Master Mix	
		Reference Dye	Easily soluble in the following materials: cold water and hot water.

**SECTION 9: Physical and chemical properties**

<b>Partition coefficient: n-octanol/water</b>	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
<b>Auto-ignition temperature</b>	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
<b>Decomposition temperature</b>	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
<b>Viscosity</b>	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
<b>Explosive properties</b>	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
<b>Oxidising properties</b>	: Not available.	

**SECTION 9: Physical and chemical properties****9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

**SECTION 10: Stability and reactivity**

<b>10.4 Conditions to avoid</b>	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: Primer Set A, 42 bp  Primer Set B, 123 bp  DNA Standard 1  DNA Standard 2  DNA Standard 3  DNA Standard 4  DNA Standard 5  Reference DNA  2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.  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**

Not available.

**Acute toxicity estimates**

Not available.

**Irritation/Corrosion****Conclusion/Summary** : Not available.**Sensitiser****Conclusion/Summary** : Not available.**Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity**

Not available.

**Specific target organ toxicity (single exposure)**



## SECTION 11: Toxicological information

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Primer Set A, 42 bp	Not available.
Primer Set B, 123 bp	Not available.
DNA Standard 1	Not available.
DNA Standard 2	Not available.
DNA Standard 3	Not available.
DNA Standard 4	Not available.
DNA Standard 5	Not available.
Reference DNA	Not available.
2X Brilliant III SYBR® Green	Not available.
QPCR Master Mix	
Reference Dye	

Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

#### Inhalation

Primer Set A, 42 bp	No known significant effects or critical hazards.
Primer Set B, 123 bp	No known significant effects or critical hazards.
DNA Standard 1	No known significant effects or critical hazards.
DNA Standard 2	No known significant effects or critical hazards.
DNA Standard 3	No known significant effects or critical hazards.
DNA Standard 4	No known significant effects or critical hazards.
DNA Standard 5	No known significant effects or critical hazards.
Reference DNA	No known significant effects or critical hazards.
2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards.
Reference Dye	No known significant effects or critical hazards.

#### Ingestion

Primer Set A, 42 bp	No known significant effects or critical hazards.
Primer Set B, 123 bp	No known significant effects or critical hazards.
DNA Standard 1	No known significant effects or critical hazards.
DNA Standard 2	No known significant effects or critical hazards.
DNA Standard 3	No known significant effects or critical hazards.
DNA Standard 4	No known significant effects or critical hazards.
DNA Standard 5	No known significant effects or critical hazards.
Reference DNA	No known significant effects or critical hazards.
2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards.
Reference Dye	No known significant effects or critical hazards.

#### Skin contact

Primer Set A, 42 bp	No known significant effects or critical hazards.
Primer Set B, 123 bp	No known significant effects or critical hazards.
DNA Standard 1	No known significant effects or critical hazards.
DNA Standard 2	No known significant effects or critical hazards.
DNA Standard 3	No known significant effects or critical hazards.
DNA Standard 4	No known significant effects or critical hazards.
DNA Standard 5	No known significant effects or critical hazards.
Reference DNA	No known significant effects or critical hazards.
2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards.
Reference Dye	No known significant effects or critical hazards.

#### Eye contact

Primer Set A, 42 bp	No known significant effects or critical hazards.
Primer Set B, 123 bp	No known significant effects or critical hazards.
DNA Standard 1	No known significant effects or critical hazards.
DNA Standard 2	No known significant effects or critical hazards.
DNA Standard 3	No known significant effects or critical hazards.
DNA Standard 4	No known significant effects or critical hazards.
DNA Standard 5	No known significant effects or critical hazards.
Reference DNA	No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No known significant effects or critical hazards.
	No known significant effects or critical hazards.

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

<b>Inhalation</b>	:	Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Ingestion</b>	:	Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</b>	:	Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Eye contact</b>	:	Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

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

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

**SECTION 11: Toxicological information**

<b>General</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
<b>Mutagenicity</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
<b>Teratogenicity</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.
		Reference DNA	No known significant effects or critical hazards.
		2X Brilliant III SYBR®	No known significant effects or critical hazards.
		Green QPCR Master Mix	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
		DNA Standard 2	No known significant effects or critical hazards.
		DNA Standard 3	No known significant effects or critical hazards.
		DNA Standard 4	No known significant effects or critical hazards.
		DNA Standard 5	No known significant effects or critical hazards.

## SECTION 11: Toxicological information

Reference DNA	No known significant effects or critical hazards.
2X Brilliant III SYBR®	No known significant effects or critical hazards.
Green QPCR Master Mix	
Reference Dye	No known significant effects or critical hazards.

### Toxicokinetics

#### Absorption

:	Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.

#### Distribution

:	Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.

#### Metabolism

:	Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.

#### Elimination

:	Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.

#### Other information

:	Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Not available.

### 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** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

#### 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. 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

### Regulatory 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 73/78 and the IBC Code** : Not available.

## 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

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**Europe inventory** : Not determined.

##### Seveso II Directive

This product is not controlled under the Seveso II 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

Not listed.

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

Not listed.

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

Not listed.

#### International lists

##### National inventory

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: Not determined.
<b>Japan</b>	: All components are listed or exempted.
<b>Malaysia</b>	: All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>United States</b>	: At least one component is not listed.

**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]

Classification	Justification
Not classified.	

**Date of issue/ Date of revision** : 10/06/2015

**Date of previous issue** : No previous validation.

**Version** : 1

### Notice to reader

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