

# SAFETY DATA SHEET



AriaMX qRT-PCR Starter Pack, Part Number 600907

## Section 1. Identification

<b>Product identifier</b>	: AriaMX qRT-PCR Starter Pack, Part Number 600907		
<b>Part no. (chemical kit)</b>	: 600907		
<b>Part no.</b>	<input checked="" type="checkbox"/> RNase-Free Water		600164-58
	2X cDNA Synthesis Master Mix		600559-51
	AffinityScript RT/RNase Block Enzyme Mixture		600559-52
	Oligo (dT) Primer		600554-53
	Random Primers		600554-54
	2X Brilliant III QPCR Master Mix		600880-51
	Reference Dye		600530-53

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

<b>Material uses</b>	: Analytical reagent.		
	<input checked="" type="checkbox"/> RNase-Free Water		1.2 ml
	2X cDNA Synthesis Master Mix		0.5 ml
	AffinityScript RT/RNase Block Enzyme Mixture		0.05 ml
	Oligo (dT) Primer		0.2 ml (15 µg 100 ng/µl)
	Random Primers		0.15 ml (15 µg 100 ng/µl)
	2X Brilliant III QPCR Master Mix		2 ml
	Reference Dye		0.1 ml (100 µl 1 mM)

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave  
Victoria 3170, Australia  
1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

Not classified.

<input checked="" type="checkbox"/> 2X cDNA Synthesis Master Mix	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%
AffinityScript RT/RNase Block Enzyme Mixture	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
2X Brilliant III QPCR Master Mix	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: 10 - 30%
Reference Dye	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%

## Section 2. Hazard(s) identification

2X cDNA Synthesis Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%
Reference Dye	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.4%

### GHS label elements

#### Signal word

2X cDNA Synthesis Master Mix	No signal word.
AffinityScript RT/RNase Block Enzyme Mixture	No signal word.
Oligo (dT) Primer	No signal word.
Random Primers	No signal word.
2X Brilliant III QPCR Master Mix	No signal word.
Reference Dye	No signal word.

#### Hazard statements

2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
Oligo (dT) Primer	No known significant effects or critical hazards.
Random Primers	No known significant effects or critical hazards.
2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.
Reference Dye	No known significant effects or critical hazards.

### Precautionary statements

#### Prevention

2X cDNA Synthesis Master Mix	Not applicable.
AffinityScript RT/RNase Block Enzyme Mixture	Not applicable.
Oligo (dT) Primer	Not applicable.
Random Primers	Not applicable.
2X Brilliant III QPCR Master Mix	Not applicable.
Reference Dye	Not applicable.

#### Response

2X cDNA Synthesis Master Mix	Not applicable.
AffinityScript RT/RNase Block Enzyme Mixture	Not applicable.
Oligo (dT) Primer	Not applicable.
Random Primers	Not applicable.
2X Brilliant III QPCR Master Mix	Not applicable.
Reference Dye	Not applicable.

#### Storage

2X cDNA Synthesis Master Mix	Not applicable.
AffinityScript RT/RNase Block Enzyme Mixture	Not applicable.
Oligo (dT) Primer	Not applicable.
Random Primers	Not applicable.
2X Brilliant III QPCR Master Mix	Not applicable.
Reference Dye	Not applicable.

## Section 2. Hazard(s) identification

<b>Disposal</b>	:	RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture Oligo (dT) Primer Random Primers 2X Brilliant III QPCR Master Mix Reference Dye	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>			
<b>Additional warning phrases</b>	:	RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture Oligo (dT) Primer Random Primers 2X Brilliant III QPCR Master Mix Reference Dye	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Other hazards which do not result in classification</b>	:	RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture Oligo (dT) Primer Random Primers 2X Brilliant III QPCR Master Mix Reference Dye	None known. None known. None known. None known. None known. None known. None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	:	RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture Oligo (dT) Primer Random Primers 2X Brilliant III QPCR Master Mix Reference Dye	Substance Mixture Mixture Mixture Mixture Mixture Mixture
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### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
RNase-Free Water Water	100	7732-18-5
AffinityScript RT/RNase Block Enzyme Mixture Glycerol	≥30 - ≤60	56-81-5
2X Brilliant III QPCR Master Mix Glycerol	≥10 - ≤30	56-81-5

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.

## Section 3. Composition and ingredient information

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	:	RNase-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.
		2X cDNA Synthesis 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.
		AffinityScript RT/RNase Block Enzyme Mixture	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.
		Oligo (dT) Primer	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.
		2X Brilliant III 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>	:	RNase-Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		2X cDNA Synthesis Master Mix	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.
		AffinityScript RT/RNase Block Enzyme Mixture	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Oligo (dT) Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Random Primers	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		2X Brilliant III 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. 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.

## Section 4. First aid measures

<b>Skin contact</b>	:	RNase-Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		2X cDNA Synthesis Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		AffinityScript RT/RNase Block Enzyme Mixture	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Oligo (dT) Primer	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.
		2X Brilliant III 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>	:	RNase-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.
		2X cDNA Synthesis 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.
		AffinityScript RT/RNase Block Enzyme Mixture	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.
		Oligo (dT) Primer	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.
		2X Brilliant III 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.

## Section 4. First aid measures

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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

##### Eye contact

: RNase-Free Water No known significant effects or critical hazards.  
 2X cDNA Synthesis Master Mix No known significant effects or critical hazards.  
 AffinityScript RT/RNase Block Enzyme Mixture No known significant effects or critical hazards.  
 Oligo (dT) Primer No known significant effects or critical hazards.  
 Random Primers No known significant effects or critical hazards.  
 2X Brilliant III QPCR Master Mix No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.

##### Inhalation

: RNase-Free Water No known significant effects or critical hazards.  
 2X cDNA Synthesis Master Mix No known significant effects or critical hazards.  
 AffinityScript RT/RNase Block Enzyme Mixture No known significant effects or critical hazards.  
 Oligo (dT) Primer No known significant effects or critical hazards.  
 Random Primers No known significant effects or critical hazards.  
 2X Brilliant III QPCR Master Mix No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.

##### Skin contact

: RNase-Free Water No known significant effects or critical hazards.  
 2X cDNA Synthesis Master Mix No known significant effects or critical hazards.  
 AffinityScript RT/RNase Block Enzyme Mixture No known significant effects or critical hazards.  
 Oligo (dT) Primer No known significant effects or critical hazards.  
 Random Primers No known significant effects or critical hazards.  
 2X Brilliant III QPCR Master Mix No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.

##### Ingestion

: RNase-Free Water No known significant effects or critical hazards.  
 2X cDNA Synthesis Master Mix No known significant effects or critical hazards.  
 AffinityScript RT/RNase Block Enzyme Mixture No known significant effects or critical hazards.  
 Oligo (dT) Primer No known significant effects or critical hazards.  
 Random Primers No known significant effects or critical hazards.  
 2X Brilliant III QPCR Master Mix No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.

### Over-exposure signs/symptoms

##### Eye contact

: RNase-Free Water No specific data.  
 2X cDNA Synthesis Master Mix No specific data.  
 AffinityScript RT/RNase Block Enzyme Mixture No specific data.  
 Oligo (dT) Primer No specific data.  
 Random Primers No specific data.  
 2X Brilliant III QPCR Master Mix No specific data.  
 Reference Dye No specific data.



## Section 4. First aid measures

<b>Inhalation</b>	:	RNAse-Free Water	No specific data.	
		2X cDNA Synthesis Master Mix	No specific data.	
		AffinityScript RT/RNase	No specific data.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	No specific data.	
		Random Primers	No specific data.	
		2X Brilliant III QPCR Master Mix	No specific data.	
		Reference Dye	No specific data.	
	<b>Skin contact</b>	:	RNAse-Free Water	No specific data.
			2X cDNA Synthesis Master Mix	No specific data.
		AffinityScript RT/RNase	No specific data.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	No specific data.	
		Random Primers	No specific data.	
		2X Brilliant III QPCR Master Mix	No specific data.	
		Reference Dye	No specific data.	
<b>Ingestion</b>		:	RNAse-Free Water	No specific data.
			2X cDNA Synthesis Master Mix	No specific data.
		AffinityScript RT/RNase	No specific data.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	No specific data.	
		Random Primers	No specific data.	
		2X Brilliant III QPCR Master Mix	No specific data.	
		Reference Dye	No specific data.	

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

<b>Notes to physician</b>	:	RNAse-Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		2X cDNA Synthesis Master Mix	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.
		AffinityScript RT/RNase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Block Enzyme Mixture	
		Oligo (dT) Primer	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.
		2X Brilliant III QPCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Reference Dye	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.
<b>Specific treatments</b>	:	RNAse-Free Water	No specific treatment.
		2X cDNA Synthesis Master Mix	No specific treatment.
		AffinityScript RT/RNase	No specific treatment.
		Block Enzyme Mixture	
		Oligo (dT) Primer	No specific treatment.
		Random Primers	No specific treatment.

## Section 4. First aid measures

	2X Brilliant III QPCR Master Mix	No specific treatment.
	Reference Dye	No specific treatment.
<b>Protection of first-aiders</b>	: RNase-Free Water	No action shall be taken involving any personal risk or without suitable training.
	2X cDNA Synthesis Master Mix	No action shall be taken involving any personal risk or without suitable training.
	AffinityScript RT/RNase Block Enzyme Mixture	No action shall be taken involving any personal risk or without suitable training.
	Oligo (dT) Primer	No action shall be taken involving any personal risk or without suitable training.
	Random Primers	No action shall be taken involving any personal risk or without suitable training.
	2X Brilliant III 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.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: RNase-Free Water	Use an extinguishing agent suitable for the surrounding fire.
	2X cDNA Synthesis Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	AffinityScript RT/RNase Block Enzyme Mixture	Use an extinguishing agent suitable for the surrounding fire.
	Oligo (dT) Primer	Use an extinguishing agent suitable for the surrounding fire.
	Random Primers	Use an extinguishing agent suitable for the surrounding fire.
	2X Brilliant III QPCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	Reference Dye	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: RNase-Free Water	None known.
	2X cDNA Synthesis Master Mix	None known.
	AffinityScript RT/RNase Block Enzyme Mixture	None known.
	Oligo (dT) Primer	None known.
	Random Primers	None known.
	2X Brilliant III QPCR Master Mix	None known.
	Reference Dye	None known.

### Specific hazards arising from the chemical

: RNase-Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
2X cDNA Synthesis Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
AffinityScript RT/RNase Block Enzyme Mixture	In a fire or if heated, a pressure increase will occur and the container may burst.
Oligo (dT) Primer	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.
2X Brilliant III QPCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.



## Section 5. Firefighting measures

<b>Hazardous thermal decomposition products</b>	: RNase-Free Water	No specific data.
	2X cDNA Synthesis Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	AffinityScript RT/RNase Block Enzyme Mixture	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Oligo (dT) Primer Random Primers 2X Brilliant III QPCR Master Mix	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	Reference Dye	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
<b>Special protective actions for fire-fighters</b>	: RNase-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.
	2X cDNA Synthesis 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.
	AffinityScript RT/RNase Block Enzyme Mixture	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.
	Oligo (dT) Primer	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.
	2X Brilliant III 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.
<b>Special protective equipment for fire-fighters</b>	: RNase-Free Water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	2X cDNA Synthesis Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 5. Firefighting measures

AffinityScript RT/RNase Block Enzyme Mixture	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Oligo (dT) Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Random Primers	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
2X Brilliant III QPCR Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Reference Dye	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: RNase-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.
2X cDNA Synthesis 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.
AffinityScript RT/RNase Block Enzyme Mixture	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.
Oligo (dT) Primer	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.
2X Brilliant III 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

## Section 6. Accidental release measures

### For emergency responders : RNase-Free Water

2X cDNA Synthesis Master Mix

AffinityScript RT/RNase Block Enzyme Mixture

Oligo (dT) Primer

Random Primers

2X Brilliant III QPCR Master Mix

Reference Dye

through spilt material. Put on appropriate personal protective equipment.

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".

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### Environmental precautions : RNase-Free Water

2X cDNA Synthesis Master Mix

AffinityScript RT/RNase Block Enzyme Mixture

Oligo (dT) Primer

Random Primers

2X Brilliant III QPCR Master Mix

Reference Dye

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

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Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 6. Accidental release measures

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### [Methods and material for containment and cleaning up](#)

**Methods for cleaning up** : RNase-Free Water

2X cDNA Synthesis Master Mix

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.

AffinityScript RT/RNase Block Enzyme Mixture

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.

Oligo (dT) Primer

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.

2X Brilliant III QPCR Master Mix

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.

Reference Dye

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.

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## Section 7. Handling and storage

### [Precautions for safe handling](#)

**Protective measures** : RNase-Free Water

2X cDNA Synthesis Master Mix

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

AffinityScript RT/RNase Block Enzyme Mixture  
Oligo (dT) Primer

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

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

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

Random Primers

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

2X Brilliant III QPCR Master Mix

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

## Section 7. Handling and storage

	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: RNase-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.
	2X cDNA Synthesis 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 8 for additional information on hygiene measures.
	AffinityScript RT/RNase Block Enzyme Mixture	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.
	Oligo (dT) Primer	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.
	2X Brilliant III 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 8 for additional information on hygiene measures.
	Reference Dye	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.
<b>Conditions for safe storage, including any incompatibilities</b>	: RNase-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.



## Section 7. Handling and storage

2X cDNA Synthesis 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. See Section 10 for incompatible materials before handling or use.
AffinityScript RT/RNase Block Enzyme Mixture	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.
Oligo (dT) Primer	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.
2X Brilliant III 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. See Section 10 for incompatible materials before handling or use.
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



## Section 7. Handling and storage

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

## Section 8. Exposure controls and personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

Ingredient name	Exposure limits
<b>AffinityScript RT/RNase Block Enzyme Mixture</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>2X Brilliant III QPCR Master Mix</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### [Individual protection measures](#)

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with 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** : 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.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	:	RNase-Free Water	Liquid.	
		2X cDNA Synthesis Master Mix	Liquid.	
		AffinityScript RT/RNase	Liquid.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Liquid.	
		Random Primers	Liquid.	
		2X Brilliant III QPCR Master Mix	Liquid.	
		Reference Dye	Liquid.	
	<b>Colour</b>	:	RNase-Free Water	Colourless.
			2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Not available.	
		Random Primers	Not available.	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	
<b>Odour</b>		:	RNase-Free Water	Odourless.
			2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Not available.	
		Random Primers	Not available.	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	
	<b>Odour threshold</b>	:	RNase-Free Water	Not available.
			2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Not available.	
		Random Primers	Not available.	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	
<b>pH</b>		:	RNase-Free Water	7
			2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase	8	
		Block Enzyme Mixture		
		Oligo (dT) Primer	7.5	
		Random Primers	7.5	
		2X Brilliant III QPCR Master Mix	7.8	
		Reference Dye	8	
	<b>Melting point</b>	:	RNase-Free Water	0°C (32°F)
			2X cDNA Synthesis Master Mix	0°C (32°F)
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	0°C (32°F)	
		Random Primers	0°C (32°F)	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	

## Section 9. Physical and chemical properties

<b>Boiling point</b>	:	RNAse-Free Water	100°C (212°F)	
		2X cDNA Synthesis Master Mix	100°C (212°F)	
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	100°C (212°F)	
		Random Primers	100°C (212°F)	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	
	<b>Flash point</b>	:	RNAse-Free Water	Not applicable.
			2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Not available.	
		Random Primers	Not available.	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	
<b>Evaporation rate</b>		:	RNAse-Free Water	Not available.
			2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Not available.	
		Random Primers	Not available.	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	
	<b>Flammability (solid, gas)</b>	:	RNAse-Free Water	Not applicable.
			2X cDNA Synthesis Master Mix	Not applicable.
		AffinityScript RT/RNase	Not applicable.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Not applicable.	
		Random Primers	Not applicable.	
		2X Brilliant III QPCR Master Mix	Not applicable.	
		Reference Dye	Not applicable.	
<b>Lower and upper explosive (flammable) limits</b>		:	RNAse-Free Water	Not available.
			2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Not available.	
		Random Primers	Not available.	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	
	<b>Vapour pressure</b>	:	RNAse-Free Water	3.2 kPa (23.8 mm Hg) [room temperature]
			2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase	Not available.	
		Block Enzyme Mixture		
		Oligo (dT) Primer	Not available.	
		Random Primers	Not available.	
		2X Brilliant III QPCR Master Mix	Not available.	
		Reference Dye	Not available.	
<b>Vapour density</b>		:		

## Section 9. Physical and chemical properties

		RNase-Free Water	0.62 [Air = 1]
		2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase Block Enzyme Mixture	Not available.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		2X Brilliant III QPCR Master Mix	Not available.
		Reference Dye	Not available.
<b>Relative density</b>	:	RNase-Free Water	1
		2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase Block Enzyme Mixture	Not available.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		2X Brilliant III QPCR Master Mix	Not available.
		Reference Dye	Not available.
<b>Solubility</b>	:	RNase-Free Water	Easily soluble in the following materials: cold water and hot water.
		2X cDNA Synthesis Master Mix	Easily soluble in the following materials: cold water and hot water.
		AffinityScript RT/RNase Block Enzyme Mixture	Soluble in the following materials: cold water and hot water.
		Oligo (dT) Primer	Easily soluble in the following materials: cold water and hot water.
		Random Primers	Easily soluble in the following materials: cold water and hot water.
		2X Brilliant III QPCR Master Mix	Soluble in the following materials: cold water and hot water.
		Reference Dye	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	:	RNase-Free Water	-1.38
		2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase Block Enzyme Mixture	Not available.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		2X Brilliant III QPCR Master Mix	Not available.
		Reference Dye	Not available.
<b>Auto-ignition temperature</b>	:	RNase-Free Water	Not applicable.
		2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase Block Enzyme Mixture	Not available.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		2X Brilliant III QPCR Master Mix	Not available.
		Reference Dye	Not available.
<b>Decomposition temperature</b>	:	RNase-Free Water	Not available.
		2X cDNA Synthesis Master Mix	Not available.
		AffinityScript RT/RNase Block Enzyme Mixture	Not available.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		2X Brilliant III QPCR Master Mix	Not available.

## Section 9. Physical and chemical properties

<b>Viscosity</b>	Mix	
	Reference Dye	Not available.
	: RNase-Free Water	Not available.
	2X cDNA Synthesis Master	Not available.
	Mix	
	AffinityScript RT/RNase	Not available.
	Block Enzyme Mixture	
	Oligo (dT) Primer	Not available.
	Random Primers	Not available.
	2X Brilliant III QPCR Master	Not available.
Mix		
Reference Dye	Not available.	

## Section 10. Stability and reactivity

<b>Reactivity</b>	: RNase-Free Water	No specific test data related to reactivity available for this product or its ingredients.
	2X cDNA Synthesis Master	No specific test data related to reactivity available for this product or its ingredients.
	Mix	No specific test data related to reactivity available for this product or its ingredients.
	AffinityScript RT/RNase	No specific test data related to reactivity available for this product or its ingredients.
	Block Enzyme Mixture	No specific test data related to reactivity available for this product or its ingredients.
	Oligo (dT) Primer	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.
	2X Brilliant III QPCR Master	No specific test data related to reactivity available for this product or its ingredients.
	Mix	No specific test data related to reactivity available for this product or its ingredients.
	Reference Dye	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: RNase-Free Water	The product is stable.
	2X cDNA Synthesis Master	The product is stable.
	Mix	
	AffinityScript RT/RNase	The product is stable.
	Block Enzyme Mixture	
	Oligo (dT) Primer	The product is stable.
	Random Primers	The product is stable.
	2X Brilliant III QPCR Master	The product is stable.
	Mix	
	Reference Dye	The product is stable.
<b>Possibility of hazardous reactions</b>	: RNase-Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
	2X cDNA Synthesis Master	Under normal conditions of storage and use, hazardous reactions will not occur.
	Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	AffinityScript RT/RNase	Under normal conditions of storage and use, hazardous reactions will not occur.
	Block Enzyme Mixture	Under normal conditions of storage and use, hazardous reactions will not occur.
	Oligo (dT) Primer	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.
	2X Brilliant III QPCR Master	Under normal conditions of storage and use, hazardous reactions will not occur.
	Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Reference Dye	Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

<b>Conditions to avoid</b>	: RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture Oligo (dT) Primer Random Primers 2X Brilliant III 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.
<b>Incompatible materials</b>	: RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture Oligo (dT) Primer Random Primers 2X Brilliant III 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.
<b>Hazardous decomposition products</b>	: RNase-Free Water  2X cDNA Synthesis Master Mix  AffinityScript RT/RNase Block Enzyme Mixture  Oligo (dT) Primer  Random Primers  2X Brilliant III 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.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
AffinityScript RT/RNase Block Enzyme Mixture Glycerol	LD50 Oral	Rat	12600 mg/kg	-
2X Brilliant III QPCR Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion



## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
AffinityScript RT/RNase Block Enzyme Mixture Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
2X Brilliant III QPCR Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### Sensitisation

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	<b>Information on likely routes of exposure</b> :	RNase-Free Water	Not available.
		2X cDNA Synthesis Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
		AffinityScript RT/RNase Block Enzyme Mixture	Routes of entry anticipated: Oral, Dermal, Inhalation.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		2X Brilliant III QPCR Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Reference Dye	Routes of entry anticipated: Oral, Dermal, Inhalation.	

### Potential acute health effects

<b>Eye contact</b>	<b>Eye contact</b> :	RNase-Free Water	No known significant effects or critical hazards.
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
		Oligo (dT) Primer	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Inhalation</b>	:	RNase-Free Water	No known significant effects or critical hazards.
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
		Oligo (dT) Primer	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.
	<b>Skin contact</b>	:	RNase-Free Water
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
		Oligo (dT) Primer	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.
<b>Ingestion</b>		:	RNase-Free Water
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
		Oligo (dT) Primer	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.

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

<b>Eye contact</b>	:	RNase-Free Water	No specific data.
		2X cDNA Synthesis Master Mix	No specific data.
		AffinityScript RT/RNase Block Enzyme Mixture	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		2X Brilliant III QPCR Master Mix	No specific data.
		Reference Dye	No specific data.
	<b>Inhalation</b>	:	RNase-Free Water
		2X cDNA Synthesis Master Mix	No specific data.
		AffinityScript RT/RNase Block Enzyme Mixture	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		2X Brilliant III QPCR Master Mix	No specific data.
		Reference Dye	No specific data.
<b>Skin contact</b>		:	RNase-Free Water
		2X cDNA Synthesis Master Mix	No specific data.
		AffinityScript RT/RNase Block Enzyme Mixture	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		2X Brilliant III QPCR Master Mix	No specific data.

## Section 11. Toxicological information

<b>Ingestion</b>	Reference Dye	No specific data.
	: RNase-Free Water	No specific data.
	2X cDNA Synthesis Master Mix	No specific data.
	AffinityScript RT/RNase Block Enzyme Mixture	No specific data.
	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
	2X Brilliant III QPCR Master Mix	No specific data.
	Reference Dye	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>	: RNase-Free Water	No known significant effects or critical hazards.	
	2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.	
	AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.	
	Oligo (dT) Primer	No known significant effects or critical hazards.	
	Random Primers	No known significant effects or critical hazards.	
	2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.	
	Reference Dye	No known significant effects or critical hazards.	
	<b>Carcinogenicity</b>	: RNase-Free Water	No known significant effects or critical hazards.
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
Oligo (dT) Primer		No known significant effects or critical hazards.	
Random Primers		No known significant effects or critical hazards.	
2X Brilliant III QPCR Master Mix		No known significant effects or critical hazards.	
Reference Dye		No known significant effects or critical hazards.	
<b>Mutagenicity</b>		: RNase-Free Water	No known significant effects or critical hazards.
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
	Oligo (dT) Primer	No known significant effects or critical hazards.	
	Random Primers	No known significant effects or critical hazards.	
	2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.	
	Reference Dye	No known significant effects or critical hazards.	

## Section 11. Toxicological information

<b>Teratogenicity</b>	:	RNase-Free Water	No known significant effects or critical hazards.
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
		Oligo (dT) Primer	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	RNase-Free Water	No known significant effects or critical hazards.
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
		Oligo (dT) Primer	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	RNase-Free Water	No known significant effects or critical hazards.
		2X cDNA Synthesis Master Mix	No known significant effects or critical hazards.
		AffinityScript RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
		Oligo (dT) Primer	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		2X Brilliant III QPCR Master Mix	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
AffinityScript RT/RNase Block Enzyme Mixture Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
2X Brilliant III QPCR Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

## Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
<b>AffinityScript RT/RNase Block Enzyme Mixture</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>2X Brilliant III QPCR Master Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
<b>RNase-Free Water</b> Water	-	-	Readily	

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>RNase-Free Water</b> Water	-1.38	-	low
<b>AffinityScript RT/RNase Block Enzyme Mixture</b> Glycerol	-1.76	-	low
<b>2X Brilliant III QPCR Master Mix</b> Glycerol	-1.76	-	low

### Mobility in soil

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

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

## Section 13. Disposal considerations

**Disposal methods** : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. 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

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

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

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

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

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

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<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>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.



## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 02/03/2018

**Date of previous issue** : 31/05/2016

**Version** : 2

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
Not classified.	

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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