

# SAFETY DATA SHEET



AriaMX qRT-PCR Starter Pack, Part Number 600907

## Section 1. Identification

### 1.1 Product identifier

**Product name** : AriaMX qRT-PCR Starter Pack, Part Number 600907  
**Part no. (chemical kit)** : 600907  
**Part no.** :  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

**Validation date** : 11/2/2023

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

**Identified uses** :  Analytical reagent.  
 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)

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

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

### 1.4 Emergency telephone number

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

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

<b>OSHA/HCS status</b> : <input checked="" type="checkbox"/> RNase-Free Water	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
2X cDNA Synthesis Master Mix	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
AffinityScript RT/RNase Block Enzyme Mixture Oligo (dT) Primer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information

## Section 2. Hazards identification

Random Primers	critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
2X Brilliant III QPCR Master Mix	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Reference Dye	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture

#### **AffinityScript RT/RNase Block Enzyme Mixture**

H320 EYE IRRITATION - Category 2B

#### **2X Brilliant III QPCR Master Mix**

H320 EYE IRRITATION - Category 2B

### 2.2 GHS label elements

#### **Signal word**

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

#### **Hazard statements**

: 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	H320 - Causes eye irritation.
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	H320 - Causes eye irritation.
Reference Dye	No known significant effects or critical hazards.

### Precautionary statements

#### **Prevention**

: RNase-Free Water	Not applicable.
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. Hazards identification

<b>Response</b>	: RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture	Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	Oligo (dT) Primer Random Primers 2X Brilliant III QPCR Master Mix	Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	Reference Dye	Not applicable.
<b>Storage</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. Not applicable.
<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. Not applicable.
<b>Supplemental label elements</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. None known.
<b>2.3 Other hazards</b>		
<b>Hazards not otherwise classified</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. None known.

## Section 3. Composition/information on ingredients

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

Ingredient name	%	CAS number
<b>RNase-Free Water</b>		
water	100	7732-18-5
<b>AffinityScript RT/RNase Block Enzyme Mixture</b>		
Glycerol	≥50 - ≤75	56-81-5
<b>2X Brilliant III QPCR Master Mix</b>		
Glycerol	≥10 - ≤25	56-81-5
Potassium chloride	≤3	7447-40-7
Polyoxyethylene octyl phenyl ether	<0.1	9002-93-1
<b>Reference Dye</b>		
Potassium chloride	≤5	7447-40-7

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

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

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


## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

<b>Eye contact</b>	:	<b>RNase-Free Water</b>	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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
		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,

## Section 4. First aid measures

### Inhalation

2X Brilliant III QPCR Master Mix	occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
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.
:  Nose-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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		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. 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. 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 dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
		Oligo (dT) Primer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
		Random Primers	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not

## Section 4. First aid measures

2X Brilliant III QPCR Master Mix

induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Reference Dye

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

#### Potential acute health effects

##### Eye contact

: Nase-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 known significant effects or critical hazards.  
No known significant effects or critical hazards.  
Causes eye irritation.

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

No known significant effects or critical hazards.

##### Inhalation

: Nase-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 known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

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

##### Skin contact

: Nase-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 known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

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

##### Ingestion

: Nase-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 known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

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

## Section 4. First aid measures

### Over-exposure signs/symptoms

<b>Eye contact</b>	: RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture	No specific data. No specific data. Adverse symptoms may include the following:  irritation watering redness
	Oligo (dT) Primer Random Primers 2X Brilliant III QPCR Master Mix	No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness
<b>Inhalation</b>	: RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture	No specific data. No specific data. No specific data.
	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.
<b>Skin contact</b>	: RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture	No specific data. No specific data. No specific data.
	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.
<b>Ingestion</b>	: RNase-Free Water 2X cDNA Synthesis Master Mix AffinityScript RT/RNase Block Enzyme Mixture	No specific data. No specific data. No specific data.
	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.

### 4.3 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 Block Enzyme Mixture	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	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



## Section 4. First aid measures

	Reference Dye	specialist immediately if large quantities have been ingested or inhaled. 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 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 treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
<b>Protection of first-aiders</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 action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

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

## Section 5. Fire-fighting measures

Reference Dye

None known.

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

#### 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  
Oligo (dT) Primer

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.

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.

#### Hazardous thermal decomposition products

: 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 compoundsAffinityScript RT/RNase Block  
Enzyme Mixture

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide

Oligo (dT) Primer

No specific data.

Random Primers

No specific data.

2X Brilliant III QPCR Master Mix

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

### 5.3 Advice for firefighters

#### Special protective actions for fire-fighters

: 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

## Section 5. Fire-fighting measures

Random Primers		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.
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

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

<b>For non-emergency personnel</b>	: 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 spilled 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 spilled material. Put on appropriate personal protective equipment.
AffinityScript RT/RNase Block		No action shall be taken involving any personal

## Section 6. Accidental release measures

Enzyme Mixture	risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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 spilled material. Put on appropriate personal protective equipment.
Random Primers	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Put on appropriate personal protective equipment.
<b>For emergency responders :</b> RNase-Free Water	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
2X cDNA Synthesis Master Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
AffinityScript RT/RNase Block Enzyme Mixture	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Oligo (dT) Primer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Random Primers	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
2X Brilliant III QPCR Master Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Reference Dye	If specialized clothing is required to deal with the

## Section 6. Accidental release measures

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

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

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

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

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

Methods for cleaning up : RNase-Free Water

2X cDNA Synthesis Master Mix

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.

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

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

## Section 6. Accidental release measures

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.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

: RNase-Free Water	Put on appropriate personal protective equipment (see Section 8).
2X cDNA Synthesis Master Mix	Put on appropriate personal protective equipment (see Section 8).
AffinityScript RT/RNase Block Enzyme Mixture	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Oligo (dT) Primer	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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Reference Dye	Put on appropriate personal protective equipment (see Section 8).

## Section 7. Handling and storage

<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>7.2 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

## Section 7. Handling and storage

2X cDNA Synthesis Master Mix	<p>incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
AffinityScript RT/RNase Block Enzyme Mixture	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Oligo (dT) Primer	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Random Primers	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
2X Brilliant III QPCR Master Mix	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Reference Dye	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food</p>



## Section 7. Handling and storage

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

### 7.3 Specific end use(s)

#### Recommendations

<ul style="list-style-type: none"> <li>• RNase-Free Water</li> <li>2X cDNA Synthesis Master Mix</li> <li>AffinityScript RT/RNase Block</li> <li>Enzyme Mixture</li> <li>Oligo (dT) Primer</li> <li>Random Primers</li> <li>2X Brilliant III QPCR Master Mix</li> <li>Reference Dye</li> </ul>	<ul style="list-style-type: none"> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> </ul>
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#### Industrial sector specific solutions

<ul style="list-style-type: none"> <li>• RNase-Free Water</li> <li>2X cDNA Synthesis Master Mix</li> <li>AffinityScript RT/RNase Block</li> <li>Enzyme Mixture</li> <li>Oligo (dT) Primer</li> <li>Random Primers</li> <li>2X Brilliant III QPCR Master Mix</li> <li>Reference Dye</li> </ul>	<ul style="list-style-type: none"> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>
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## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>RNase-Free Water</b> water	None.
<b>AffinityScript RT/RNase Block Enzyme Mixture</b> Glycerol	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>CAL OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: respirable fraction TWA: 10 mg/m<sup>3</sup> 8 hours. Form: total dust</p>
<b>2X Brilliant III QPCR Master Mix</b> Glycerol	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>

## Section 8. Exposure controls/personal protection

Potassium chloride	<b>CAL OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: respirable fraction
Polyoxyethylene octyl phenyl ether	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust None.
<b>Reference Dye</b> Potassium chloride	None.

### Biological exposure indices

No exposure indices known.

### 8.2 Exposure controls

- 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 and safety characteristics

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

### Appearance

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

<b>Boiling point, initial boiling point, and boiling range</b>	<input checked="" type="checkbox"/> RNase-Free Water	100°C (212°F)
	2X cDNA Synthesis Master Mix	100°C (212°F)
	AffinityScript RT/RNase Block	Not available.
	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>	<b>Ingredient name</b>	<b>Closed cup</b>			<b>Open cup</b>		
		<b>°C</b>	<b>°F</b>	<b>Method</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
	<input checked="" type="checkbox"/> AffinityScript RT/ RNase Block Enzyme Mixture						
	Glycerol	-	-	-	177	350.6	-
<b>2X Brilliant III QPCR Master Mix</b>							
	Glycerol	-	-	-	177	350.6	-

<b>Evaporation rate</b>	<input checked="" type="checkbox"/> RNase-Free Water	Not available.
	2X cDNA Synthesis Master Mix	Not available.
	AffinityScript RT/RNase Block	Not available.
	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</b>	<input checked="" type="checkbox"/> RNase-Free Water	Not applicable.
	2X cDNA Synthesis Master Mix	Not applicable.
	AffinityScript RT/RNase Block	Not applicable.
	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 explosion limit/flammability limit</b>	<input checked="" type="checkbox"/> RNase-Free Water	Not available.
	2X cDNA Synthesis Master Mix	Not available.
	AffinityScript RT/RNase Block	Not available.
	Enzyme Mixture	
	Oligo (dT) Primer	Not available.
	Random Primers	Not available.
	2X Brilliant III QPCR Master Mix	Not available.
	Reference Dye	Not available.

<b>Vapor pressure</b>	<input checked="" type="checkbox"/> RNase-Free Water	2.3 kPa (17.5 mm Hg) [room temperature]
		12.3 kPa (92.258 mm Hg) [50°C (122°F)]

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method

## Section 9. Physical and chemical properties and safety characteristics

<b>2X cDNA Synthesis Master Mix</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>AffinityScript RT/RNase Block Enzyme Mixture</b>							
water	17.5	2.3	-	92.258	12.3	-	
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
<b>Oligo (dT) Primer</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Random Primers</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>2X Brilliant III QPCR Master Mix</b>							
water	17.5	2.3	-	92.258	12.3	-	
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
<b>Reference Dye</b>							
water	17.5	2.3	-	92.258	12.3	-	

**Relative vapor density** :

- ☑ 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.

**Relative density** :

- ☑ 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.

## Section 9. Physical and chemical properties and safety characteristics

<b>Solubility(ies)</b>	:	<b>Media</b>	<b>Result</b>		
		RNAse-Free Water water	Soluble		
		2X cDNA Synthesis Master Mix water	Soluble		
		AffinityScript RT/RNase Block Enzyme Mixture water	Soluble		
		Oligo (dT) Primer water	Soluble		
		Random Primers water	Soluble		
		2X Brilliant III QPCR Master Mix water	Soluble		
		Reference Dye water	Soluble		
<b>Partition coefficient: n-octanol/water</b>	:	RNAse-Free Water	-1.38		
		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.		
<b>Auto-ignition temperature</b>	:	<b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
		RNAse-Free Water AffinityScript RT/RNase Block Enzyme Mixture Glycerol	370	698	-
		2X Brilliant III QPCR Master Mix Glycerol	370	698	-
<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.		
		Reference Dye	Not available.		
<b>Viscosity</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.		
		Reference Dye	Not available.		

### Particle characteristics

## Section 9. Physical and chemical properties and safety characteristics

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

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: RNase-Free Water	No specific test data related to reactivity available for this product or its ingredients.
	2X cDNA Synthesis Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	AffinityScript RT/RNase Block	No specific test data related to reactivity available for this product or its ingredients.
	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 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>10.2 Chemical stability</b>	: RNase-Free Water	The product is stable.
	2X cDNA Synthesis Master Mix	The product is stable.
	AffinityScript RT/RNase Block	The product is stable.
	Enzyme Mixture	
	Oligo (dT) Primer	The product is stable.
	Random Primers	The product is stable.
	2X Brilliant III QPCR Master Mix	The product is stable.
	Reference Dye	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: RNase-Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
	2X cDNA Synthesis Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	AffinityScript RT/RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	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 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.
<b>10.4 Conditions to avoid</b>	: RNase-Free Water	No specific data.
	2X cDNA Synthesis Master Mix	No specific data.
	AffinityScript RT/RNase Block	No specific data.
	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.

## Section 10. Stability and reactivity

<b>10.5 Incompatible materials</b>	: RNase-Free Water	May react or be incompatible with oxidizing materials.
	2X cDNA Synthesis Master Mix	May react or be incompatible with oxidizing materials.
	AffinityScript RT/RNase Block Enzyme Mixture	May react or be incompatible with oxidizing materials.
	Oligo (dT) Primer	May react or be incompatible with oxidizing materials.
	Random Primers	May react or be incompatible with oxidizing materials.
	2X Brilliant III QPCR Master Mix	May react or be incompatible with oxidizing materials.
	Reference Dye	May react or be incompatible with oxidizing materials.

<b>10.6 Hazardous decomposition products</b>	: RNase-Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	2X cDNA Synthesis Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	AffinityScript RT/RNase Block Enzyme Mixture	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Oligo (dT) Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Random Primers	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	2X Brilliant III QPCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Reference Dye	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>AffinityScript RT/RNase Block Enzyme Mixture</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>2X Brilliant III QPCR Master Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-
<b>Reference Dye</b> Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-

#### Irritation/Corrosion



## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
<input checked="" type="checkbox"/> <b>AffinityScript RT/RNase Block Enzyme Mixture</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>2X Brilliant III QPCR Master Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
<b>Reference Dye</b> Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

### Sensitization

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

<input checked="" type="checkbox"/> Nose-Free Water	Not available.
2X cDNA Synthesis Master Mix	Not available.
AffinityScript RT/RNase Block Enzyme Mixture	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Oligo (dT) Primer	Not available.
Random Primers	Not available.
2X Brilliant III QPCR Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Reference Dye	Not available.

### Potential acute health effects

## Section 11. Toxicological information

<b>Eye contact</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 known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation.  No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards.
<b>Inhalation</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 known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</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 known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</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 known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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

<b>Eye contact</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. Adverse symptoms may include the following:  irritation watering redness No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data.
<b>Inhalation</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.

## Section 11. Toxicological information

<b>Skin contact</b>	:	RNAse-Free Water	No specific data.
		2X cDNA Synthesis Master Mix	No specific data.
		AffinityScript RT/RNase Block	No specific data.
		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 Block	No specific data.
		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.

### 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

<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	No known significant effects or critical hazards.
		Enzyme Mixture	
		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	No known significant effects or critical hazards.
		Enzyme Mixture	
		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	No known significant effects or critical hazards.
		Enzyme Mixture	
		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>Reproductive toxicity</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	No known significant effects or critical hazards.
	Enzyme Mixture	
	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

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>AffinityScript RT/RNase Block Enzyme Mixture</b> Glycerol	12600	N/A	N/A	N/A	N/A
<b>2X Brilliant III QPCR Master Mix</b> 2X Brilliant III QPCR Master Mix	177172.1	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A
<b>Reference Dye</b> Reference Dye	70270.3	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>AffinityScript RT/RNase Block Enzyme Mixture</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>2X Brilliant III QPCR Master Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - <i>Navicula seminulum</i>	96 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - <i>Pseudosida ramosa</i> - Neonate	48 hours
	Acute LC50 93000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - <i>Danio rerio</i>	96 hours
Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia rigaudi</i> - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
<b>Reference Dye</b>	Chronic NOEC 0.004 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i>	28 days

## Section 12. Ecological information

Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - <i>Navicula seminulum</i>	96 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - <i>Pseudosida ramosa</i> - Neonate	48 hours
	Acute LC50 93000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - <i>Danio rerio</i>	96 hours

### 12.2 Persistence and degradability

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
<b>2X Brilliant III QPCR Master Mix</b> Potassium chloride	-	-	Readily
Polyoxyethylene octyl phenyl ether	-	-	Readily
<b>Reference Dye</b> Potassium chloride	-	-	Readily

### 12.3 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
Potassium chloride	-0.46	-	Low
Polyoxyethylene octyl phenyl ether	4.86	-	High
<b>Reference Dye</b> Potassium chloride	-0.46	-	Low

## Section 12. Ecological information

### 12.4 Mobility in soil

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

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

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

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

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

## Section 14. Transport information

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

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

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

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

**U.S. Federal regulations** : **TSCA 8(a) PAIR:** Polyoxyethylene octyl phenyl ether; Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Clean Water Act (CWA) 311:** Edetic acid

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

## Section 15. Regulatory information

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

<b>Classification</b>	:	<input checked="" type="checkbox"/> 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. EYE IRRITATION - Category 2B  Not applicable. Not applicable. EYE IRRITATION - Category 2B Not applicable.
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#### Composition/information on ingredients

Name	%	Classification
<b>AffinityScript RT/RNase Block Enzyme Mixture</b>		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
<b>2X Brilliant III QPCR Master Mix</b>		
Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B
Potassium chloride	≤3	EYE IRRITATION - Category 2B
<b>Reference Dye</b>		
Potassium chloride	≤5	EYE IRRITATION - Category 2B

### State regulations

**Massachusetts** : The following components are listed: GLYCERINE MIST

**New York** : None of the components are listed.

**New Jersey** :  The following components are listed: GLYCERIN

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

### California Prop. 65

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

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

## Section 15. Regulatory information

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>	: <input checked="" type="checkbox"/> Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

## Section 16. Other information

### [Procedure used to derive the classification](#)

Classification	Justification
<input checked="" type="checkbox"/> <b>AffinityScript RT/RNase Block Enzyme Mixture</b> EYE IRRITATION - Category 2B	Calculation method
<b>2X Brilliant III QPCR Master Mix</b> EYE IRRITATION - Category 2B	Calculation method

### [History](#)

<b>Date of issue/Date of revision</b>	: 11/02/2023
<b>Date of previous issue</b>	: 07/27/2020
<b>Version</b>	: 4

### [Key to abbreviations](#)

: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: N/A = Not available
: UN = United Nations

Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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