

# SAFETY DATA SHEET



miRNA QPCR Master Mix, Part Number 600583

## Section 1. Identification

### 1.1 Product identifier

**Product name** : miRNA QPCR Master Mix, Part Number 600583  
**Part no. (chemical kit)** : 600583  
**Part no.** : miRNA QPCR Master Mix 600583-51  
 Reference Dye 600530-53  
**Validation date** : 2/16/2024

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

**Identified uses** :  Analytical reagent.  
 miRNA QPCR Master Mix 2 X 2.5 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

**OSHA/HCS status** : miRNA 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 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

Not classified.

### 2.2 GHS label elements

**Signal word** : miRNA QPCR Master Mix No signal word.  
 Reference Dye No signal word.  
**Hazard statements** : miRNA QPCR Master Mix No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.  
**Precautionary statements**  
**Prevention** : miRNA QPCR Master Mix Not applicable.  
 Reference Dye Not applicable.  
**Response** : miRNA QPCR Master Mix Not applicable.  
 Reference Dye Not applicable.

## Section 2. Hazards identification

<b>Storage</b>	: miRNA QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<b>Disposal</b>	: miRNA QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<b>Supplemental label elements</b>	: miRNA QPCR Master Mix Reference Dye	None known. None known.
<b>2.3 Other hazards</b>		
<b>Hazards not otherwise classified</b>	: miRNA QPCR Master Mix Reference Dye	None known. None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: miRNA QPCR Master Mix Reference Dye	Mixture Mixture
--------------------------	--	--------------------

Ingredient name	%	CAS number
miRNA QPCR Master Mix		
Glycerol	≤3	56-81-5
<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>	: miRNA QPCR Master Mix  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. 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>	: miRNA QPCR Master Mix  Reference Dye	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.
<b>Skin contact</b>	: miRNA QPCR Master Mix  Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

## Section 4. First aid measures

<b>Ingestion</b>	: miRNA QPCR 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.
	Reference Dye	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.

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

#### Potential acute health effects

<b>Eye contact</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.
<b>Inhalation</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.
<b>Skin contact</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.
<b>Ingestion</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.

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

<b>Notes to physician</b>	: miRNA 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>	: miRNA QPCR Master Mix Reference Dye	No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: miRNA 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. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: miRNA QPCR Master Mix Reference Dye	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: miRNA QPCR Master Mix Reference Dye	None known. None known.

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

<b>Specific hazards arising from the chemical</b>	: miRNA QPCR Master Mix Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: miRNA QPCR Master Mix Reference Dye	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	: miRNA QPCR Master Mix 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. 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>	: miRNA QPCR Master Mix 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. 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>	: miRNA QPCR Master Mix 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. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on
------------------------------------	--	---

## Section 6. Accidental release measures

<p><b>For emergency responders</b> : miRNA QPCR Master Mix</p> <p style="margin-left: 150px;">Reference Dye</p>	<p>appropriate personal protective equipment.</p> <p>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".</p> <p>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".</p>
<p><b>6.2 Environmental precautions</b> : miRNA QPCR Master Mix</p> <p style="margin-left: 150px;">Reference Dye</p>	<p>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).</p> <p>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).</p>
<p><b>6.3 Methods and materials for containment and cleaning up</b></p> <p><b>Methods for cleaning up</b> : miRNA QPCR Master Mix</p> <p style="margin-left: 150px;">Reference Dye</p>	<p>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.</p> <p>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.</p>

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<p><b>Protective measures</b> : miRNA QPCR Master Mix</p> <p style="margin-left: 150px;">Reference Dye</p>	<p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p>
<p><b>Advice on general occupational hygiene</b> : miRNA QPCR Master Mix</p> <p style="margin-left: 150px;">Reference Dye</p>	<p>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.</p> <p>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.</p>

## Section 7. Handling and storage

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

: miRNA 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for 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.

Reference Dye

### 7.3 Specific end use(s)

#### Recommendations

: miRNA QPCR Master Mix  
Reference Dye

Industrial applications, Professional applications.  
Industrial applications, Professional applications.

#### Industrial sector specific solutions

: miRNA QPCR Master Mix  
Reference Dye

Not available.  
Not available.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<p><b>miRNA QPCR Master Mix</b> Glycerol</p> <p><b>Reference Dye</b> Potassium chloride</p>	<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> <p>None.</p>

### Biological exposure indices

No exposure indices known.

### 8.2 Exposure controls

## Section 8. Exposure controls/personal protection

- 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>  | : miRNA QPCR Master Mix<br>Reference Dye | Liquid.<br>Liquid.               |
| <b>Color</b>   | : miRNA QPCR Master Mix<br>Reference Dye | Not available.<br>Not available. |
| <b>Odor</b>  | : miRNA QPCR Master Mix<br>Reference Dye | Not available.<br>Not available. |
| <b>Odor threshold</b>  | : miRNA QPCR Master Mix<br>Reference Dye | Not available.<br>Not available. |
| <b>pH</b>  | : miRNA QPCR Master Mix<br>Reference Dye | 8<br>8                           |
| <b>Melting point/freezing point</b>                            | : miRNA QPCR Master Mix<br>Reference Dye | 0°C (32°F)<br>Not available.     |
| <b>Boiling point, initial boiling point, and boiling range</b> | : miRNA QPCR Master Mix<br>Reference Dye | 100°C (212°F)<br>Not available.  |
| <b>Flash point</b>   | :  |                                  |

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

	Ingredient name	Closed cup			Open cup		
		°C	°F	Method	°C	°F	Method
	miRNA QPCR Master Mix						
	Glycerol	-	-	-	177	350.6	-
<b>Evaporation rate</b>	miRNA QPCR Master Mix	Not available.					
	Reference Dye	Not available.					
<b>Flammability</b>	miRNA QPCR Master Mix	Not applicable.					
	Reference Dye	Not applicable.					
<b>Lower and upper explosion limit/flammability limit</b>	miRNA QPCR Master Mix	Not available.					
	Reference Dye	Not available.					
<b>Vapor pressure</b>		Vapor Pressure at 20°C			Vapor pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	miRNA QPCR Master Mix						
	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	-
<b>Relative vapor density</b>	miRNA QPCR Master Mix	Not available.					
	Reference Dye	Not available.					
<b>Relative density</b>	miRNA QPCR Master Mix	Not available.					
	Reference Dye	Not available.					
<b>Solubility(ies)</b>	<b>Media</b>	<b>Result</b>					
	miRNA QPCR Master Mix	Soluble					
	water	Soluble					
	<b>Reference Dye</b>	Soluble					
	water	Soluble					
<b>Partition coefficient: n-octanol/water</b>	miRNA QPCR Master Mix	Not applicable.					
	Reference Dye	Not applicable.					
<b>Auto-ignition temperature</b>	Ingredient name	°C	°F	Method			
	miRNA QPCR Master Mix						
	Glycerol	370	698	-			
<b>Decomposition temperature</b>	miRNA QPCR Master Mix	Not available.					
	Reference Dye	Not available.					
<b>Viscosity</b>	miRNA QPCR Master Mix	Not available.					
	Reference Dye	Not available.					
<b>Particle characteristics</b>							
<b>Median particle size</b>	miRNA QPCR Master Mix	Not applicable.					
	Reference Dye	Not applicable.					



## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: miRNA QPCR Master Mix Reference Dye	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: miRNA QPCR Master Mix Reference Dye	The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: miRNA QPCR Master Mix Reference Dye	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: miRNA QPCR Master Mix Reference Dye	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
<b>10.6 Hazardous decomposition products</b>	: miRNA 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.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
miRNA QPCR Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Reference Dye Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
miRNA QPCR Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Reference Dye Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

#### Sensitization

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

## Section 11. Toxicological information

### 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 the likely routes of exposure</b>	: miRNA QPCR Master Mix Reference Dye	Not available. Not available.
---	--	----------------------------------

### Potential acute health effects

<b>Eye contact</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.

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

<b>Eye contact</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.
<b>Inhalation</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.
<b>Skin contact</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.
<b>Ingestion</b>	: miRNA QPCR Master Mix Reference Dye	No specific data. No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

<b>General</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Mutagenicity</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: miRNA QPCR Master Mix Reference Dye	No known significant effects or critical hazards. 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)
miRNA QPCR Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
<b>Reference Dye</b> Reference Dye Potassium chloride	70270.3 2600	N/A N/A	N/A N/A	N/A N/A	N/A N/A

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
miRNA QPCR Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>Reference Dye</b> 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
miRNA QPCR Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Reference Dye</b> Potassium chloride	-	-	Readily

### 12.3 Bioaccumulative potential

## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
miRNA QPCR Master Mix Glycerol	-1.76	-	Low
Reference Dye Potassium chloride	-0.46	-	Low

### 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) 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

**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

**Classification** : miRNA QPCR Master Mix Reference Dye Not applicable.  
Not applicable.

##### Composition/information on ingredients

Name	%	Classification
miRNA QPCR Master Mix Glycerol	≤3	EYE IRRITATION - Category 2B
Reference Dye Potassium chloride	≤5	EYE IRRITATION - Category 2B

### State regulations

**Massachusetts** : None of the components are listed.

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

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

**Pennsylvania** : None of the components are listed.

#### 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)

Not listed.

## Section 15. Regulatory information

### [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
Not classified.	

### [History](#)

<b>Date of issue/Date of revision</b>	: 02/16/2024
<b>Date of previous issue</b>	: 03/22/2021
<b>Version</b>	: 4

### [Key to abbreviations](#)

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

Indicates information that has changed from previously issued version.

### [Notice to reader](#)

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.