

# SAFETY DATA SHEET

Brilliant II QPCR Master Mix 10-pack, Part Number 600815

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

### 1.1 Product identifier

**Product name** : Brilliant II QPCR Master Mix 10-pack, Part Number 600815  
**Part no. (chemical kit)** : 600815  
**Part no.** : 2X Brilliant II QPCR Master Mix 600804-51  
 Reference Dye 600530-53

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

**Identified uses** : Analytical reagent.  
 2X Brilliant II QPCR Master Mix 20 x 2.5 ml  
 Reference Dye 0.1 ml (100 µl 1 mM)  
**Uses advised against** : None known.

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

Agilent Technologies Deutschland GmbH  
 Hewlett-Packard-Str. 8  
 76337 Waldbronn  
 Germany  
 0800 603 1000

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

### 1.4 Emergency telephone number

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : 2X Brilliant II QPCR Mixture  
 Master Mix  
 Reference Dye Mixture

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

Not classified.

2X Brilliant II QPCR Master Mix The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Reference Dye The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : 2X Brilliant II QPCR Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%  
 Master Mix Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%  
 Reference Dye Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

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

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

### 2.2 Label elements

**SECTION 2: Hazards identification**

<b>Signal word</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No signal word. No signal word.
<b>Hazard statements</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<u><b>Precautionary statements</b></u>		
<b>Prevention</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<b>Response</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<b>Storage</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<b>Disposal</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<b>Supplemental label elements</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<u><b>Special packaging requirements</b></u>		
<b>Tactile warning of danger</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.

**2.3 Other hazards**

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	None known. None known.

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

**3.1 Substances** : 2X Brilliant II QPCR Master Mix Mixture  
Reference Dye Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
2X Brilliant II QPCR Master Mix glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]

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

			See Section 16 for the full text of the H statements declared above.		
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There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

2X Brilliant II QPCR Master Mix [1] Substance with a workplace exposure limit

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Eye contact</b>	: 2X Brilliant II 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>	: 2X Brilliant II 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>	: 2X Brilliant II 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.
<b>Ingestion</b>	: 2X Brilliant II QPCR Master Mix  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. 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.
<b>Protection of first-aiders</b>	: 2X Brilliant II 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.

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

Potential acute health effects

<b>Eye contact</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.

## SECTION 4: First aid measures

<b>Ingestion</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Over-exposure signs/symptoms</b>		
<b>Eye contact</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No specific data.  No specific data.
<b>Inhalation</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No specific data.  No specific data.
<b>Skin contact</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No specific data.  No specific data.
<b>Ingestion</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No specific data.  No specific data.

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

<b>Notes to physician</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Treat symptomatically. Contact poison treatment 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>	: 2X Brilliant II QPCR Master Mix Reference Dye	No specific treatment.  No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: 2X Brilliant II 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>	: 2X Brilliant II QPCR Master Mix Reference Dye	None known.  None known.

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

<b>Hazards from the substance or mixture</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.  In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: 2X Brilliant II 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

## SECTION 5: Firefighting measures

<b>Special precautions for fire-fighters</b>	: 2X Brilliant II 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>	: 2X Brilliant II 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: 2X Brilliant II 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 spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: 2X Brilliant II QPCR Master Mix  Reference Dye	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: 2X Brilliant II QPCR Master Mix  Reference Dye	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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### 6.3 Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: 2X Brilliant II QPCR Master Mix  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. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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## SECTION 6: Accidental release measures

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: 2X Brilliant II QPCR Master Mix  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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

<b>Storage</b>	: 2X Brilliant II QPCR Master Mix  Reference Dye	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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### 7.3 Specific end use(s)

<b>Recommendations</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
2X Brilliant II QPCR Master Mix Glycerol	<b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist

#### Biological exposure indices

No exposure indices known.

#### Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

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

#### Individual protection measures

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

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

#### Skin protection

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

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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

**SECTION 9: Physical and chemical properties**

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

**9.1 Information on basic physical and chemical properties**

**Appearance**

<b>Physical state</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Liquid. Liquid.																								
<b>Colour</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.																								
<b>Odour</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.																								
<b>Odour threshold</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.																								
<b>Melting point/freezing point</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.																								
<b>Initial boiling point and boiling range</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.																								
<b>Flammability</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.																								
<b>Upper/lower flammability or explosive limits</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.																								
<b>Flash point</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 50%;"></th> <th colspan="2" style="text-align: center;">Closed cup</th> <th colspan="2" style="text-align: center;">Open cup</th> </tr> <tr> <th style="text-align: center;">°C</th> <th style="text-align: center;">Method</th> <th style="text-align: center;">°C</th> <th style="text-align: center;">Method</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>Ingredient name</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>2X Brilliant II QPCR Master Mix</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">glycerol</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">177</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>		Closed cup		Open cup		°C	Method	°C	Method	<b>Ingredient name</b>					<b>2X Brilliant II QPCR Master Mix</b>					glycerol	-	-	177	-
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<b>Auto-ignition temperature</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="text-align: center;">°C</th> <th style="text-align: center;">Method</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>Ingredient name</b></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>2X Brilliant II QPCR Master Mix</b></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">glycerol</td> <td style="text-align: center;">370</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>		°C	Method	<b>Ingredient name</b>			<b>2X Brilliant II QPCR Master Mix</b>			glycerol	370	-												
	°C	Method																								
<b>Ingredient name</b>																										
<b>2X Brilliant II QPCR Master Mix</b>																										
glycerol	370	-																								
<b>Decomposition temperature</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.																								
<b>pH</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	8 8																								
<b>Viscosity</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not available. Not available.																								
<b>Solubility(ies)</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center;">Result</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>Media</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>2X Brilliant II QPCR Master Mix</b></td> <td></td> </tr> <tr> <td style="text-align: center;">water</td> <td style="text-align: center;">Soluble</td> </tr> <tr> <td style="text-align: center;"><b>Reference Dye</b></td> <td></td> </tr> <tr> <td style="text-align: center;">water</td> <td style="text-align: center;">Soluble</td> </tr> </tbody> </table>		Result	<b>Media</b>		<b>2X Brilliant II QPCR Master Mix</b>		water	Soluble	<b>Reference Dye</b>		water	Soluble												
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<b>Reference Dye</b>																										
water	Soluble																									
<b>Partition coefficient: n-octanol/water</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.																								
<b>Vapour pressure</b>	:																									



**SECTION 9: Physical and chemical properties**

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>2X Brilliant II 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	-

- Evaporation rate** : 2X Brilliant II QPCR Master Mix Not available.  
Reference Dye Not available.
- Relative density** : 2X Brilliant II QPCR Master Mix Not available.  
Reference Dye Not available.
- Vapour density** : 2X Brilliant II QPCR Master Mix Not available.  
Reference Dye Not available.
- Explosive properties** : 2X Brilliant II QPCR Master Mix Not available.  
Reference Dye Not available.
- Oxidising properties** : 2X Brilliant II QPCR Master Mix Not available.  
Reference Dye Not available.
- Particle characteristics**
- Median particle size** : 2X Brilliant II QPCR Master Mix Not applicable.  
Reference Dye Not applicable.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity** : 2X Brilliant II 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.
- 10.2 Chemical stability** : 2X Brilliant II QPCR Master Mix The product is stable.  
Reference Dye The product is stable.
- 10.3 Possibility of hazardous reactions** : 2X Brilliant II 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.
- 10.4 Conditions to avoid** : 2X Brilliant II QPCR Master Mix No specific data.  
Reference Dye No specific data.

## SECTION 10: Stability and reactivity

<b>10.5 Incompatible materials</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	May react or be incompatible with oxidising materials.  May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: 2X Brilliant II 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

Not available.

#### Acute toxicity estimates

N/A

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : 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 likely routes of exposure

: 2X Brilliant II QPCR Master Mix Reference Dye	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  Not available.
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#### Potential acute health effects

<b>Inhalation</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Ingestion</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Skin contact</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Eye contact</b>	: 2X Brilliant II 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

## SECTION 11: Toxicological information

<b>Inhalation</b>	: 2X Brilliant II QPCR Master Mix	No specific data.
	Reference Dye	No specific data.
<b>Ingestion</b>	: 2X Brilliant II QPCR Master Mix	No specific data.
	Reference Dye	No specific data.
<b>Skin contact</b>	: 2X Brilliant II QPCR Master Mix	No specific data.
	Reference Dye	No specific data.
<b>Eye contact</b>	: 2X Brilliant II QPCR Master Mix	No specific data.
	Reference Dye	No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary** : Not available.

<b>General</b>	: 2X Brilliant II QPCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: 2X Brilliant II QPCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: 2X Brilliant II QPCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: 2X Brilliant II QPCR Master Mix	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

**Brilliant II QPCR Master Mix 10-pack, Part Number 600815**

**SECTION 12: Ecological information**

**12.4 Mobility in soil**

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

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Endocrine disrupting properties**

Not available.

**12.7 Other adverse effects**

No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product

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

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

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

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number or ID number</b>	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.

Additional information

## SECTION 14: Transport information

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

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

## SECTION 15: Regulatory information

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

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

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

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

<b>Label</b>	: 2X Brilliant II QPCR Master Mix Reference Dye	Not applicable.
		Not applicable.

### Other EU regulations

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

Not listed.

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

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list


<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory:</b> All components are listed or exempted.

## SECTION 15: Regulatory information

<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.

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

## SECTION 16: Other information

 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Not classified.	

### Full text of abbreviated H statements

Not applicable.

### Full text of classifications [CLP/GHS]

Not applicable.

**Date of issue/ Date of revision** : 29/04/2024

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

**Version** : 1

### Notice to reader

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