

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.
 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 LDA UK Ltd.
 5500 Lakeside Cheadle Royal Business Park,
 Cheadle, Cheshire, SK8 3GR
 United Kingdom
 Tel: +44 (0) 345 712 5292

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.

Brilliant II QPCR Master Mix The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
 Reference Dye The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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

Signal word	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	No signal word. No signal word.
Hazard statements	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
Response	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
Storage	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
Disposal	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
Supplemental label elements	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Safety data sheet available on request. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
<u>Special packaging requirements</u>		
Containers to be fitted with child-resistant fastenings	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
Tactile warning of danger	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Not applicable. Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: <input checked="" type="checkbox"/> 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.
Other hazards which do not result in classification	: <input checked="" type="checkbox"/> 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 Reference Dye	Mixture Mixture
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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Type
<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified. See Section 16 for the full text of the H statements declared above.	[1]

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

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

Eye contact	: <input checked="" type="checkbox"/> 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.
Inhalation	: <input checked="" type="checkbox"/> 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.
Skin contact	: <input checked="" type="checkbox"/> 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.
Ingestion	: <input checked="" type="checkbox"/> 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.
Protection of first-aiders	: <input checked="" type="checkbox"/> 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

Over-exposure signs/symptoms

Eye contact	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	No specific data. No specific data.
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SECTION 4: First aid measures

Inhalation	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	No specific data. No specific data.
Skin contact	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	No specific data. No specific data.
Ingestion	: <input checked="" type="checkbox"/> 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

Notes to physician	: <input checked="" type="checkbox"/> 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.
Specific treatments	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: <input checked="" type="checkbox"/> 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.
Unsuitable extinguishing media	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: <input checked="" type="checkbox"/> 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.
Hazardous combustion products	: <input checked="" type="checkbox"/> 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

Special protective actions for fire-fighters	: <input checked="" type="checkbox"/> 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.
Special protective equipment for fire-fighters	: <input checked="" type="checkbox"/> 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. 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

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

6.2 Environmental precautions

: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix	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).
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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: 2X Brilliant II 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.

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

Protective measures	: 2X Brilliant II QPCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: <input checked="" type="checkbox"/> Brilliant II 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

SECTION 7: Handling and storage

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

Storage	: <input checked="" type="checkbox"/> Brilliant II QPCR Master Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Reference Dye	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled 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	: 2X Brilliant II QPCR Master Mix Reference Dye	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: 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
<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. 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.

SECTION 8: Exposure controls/personal protection

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

Physical state	: 2X Brilliant II QPCR Master Mix	Liquid.
	: Reference Dye	Liquid.
Colour	: 2X Brilliant II QPCR Master Mix	Not available.
	: Reference Dye	Not available.
Odour	: 2X Brilliant II QPCR Master Mix	Not available.
	: Reference Dye	Not available.
Odour threshold	: 2X Brilliant II QPCR Master Mix	Not available.
	: Reference Dye	Not available.
Melting point/freezing point	: 2X Brilliant II QPCR Master Mix	Not available.
	: Reference Dye	Not available.
Initial boiling point and boiling range	: 2X Brilliant II QPCR Master Mix	Not available.
	: Reference Dye	Not available.
Flammability	: 2X Brilliant II QPCR Master Mix	Not applicable.
	: Reference Dye	Not applicable.
Upper/lower flammability or explosive limits	: 2X Brilliant II QPCR Master Mix	Not available.
	: Reference Dye	Not available.

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SECTION 9: Physical and chemical properties

Flash point	:		Closed cup		Open cup			
		Ingredient name	°C	Method	°C	Method		
		2X Brilliant II QPCR Master Mix						
		glycerol	-	-	177	-		
Auto-ignition temperature	:	Ingredient name	°C	Method				
		2X Brilliant II QPCR Master Mix						
		glycerol	370	-				
Decomposition temperature	:	2X Brilliant II QPCR Master Mix	Not available.					
		Reference Dye	Not available.					
pH	:	2X Brilliant II QPCR Master Mix	8					
		Reference Dye	8					
Viscosity	:	2X Brilliant II QPCR Master Mix	Not available.					
		Reference Dye	Not available.					
Solubility(ies)	:	Media	Result					
		2X Brilliant II QPCR Master Mix						
		water	Soluble					
		Reference Dye						
		water	Soluble					
Partition coefficient: n-octanol/water	:	2X Brilliant II QPCR Master Mix	Not applicable.					
		Reference Dye	Not applicable.					
Vapour pressure	:		Vapour Pressure at 20°C			Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2X Brilliant II QPCR Master Mix						
		water	17.5	2.3	-	92.258	12.3	-
		glycerol	0.000075	0.00001	-	0.0025	0.00033	-
		Reference Dye						
		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

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SECTION 9: Physical and chemical properties

Median particle size : 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 : 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 : Brilliant II QPCR Master Mix The product is stable.
Reference Dye The product is stable.

10.3 Possibility of hazardous reactions : 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 : Brilliant II QPCR Master Mix No specific data.
Reference Dye No specific data.

10.5 Incompatible materials : Brilliant II QPCR Master Mix May react or be incompatible with oxidising materials.
Reference Dye May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : Brilliant II 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
<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Glycerol	12600	N/A	N/A	N/A	N/A

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

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 : Brilliant II QPCR Master Mix Reference Dye Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
 Not available.

Potential acute health effects

Inhalation : Brilliant II QPCR Master Mix Reference Dye No known significant effects or critical hazards.

Ingestion : Brilliant II QPCR Master Mix Reference Dye No known significant effects or critical hazards.

Skin contact : Brilliant II QPCR Master Mix Reference Dye No known significant effects or critical hazards.

Eye contact : Brilliant II QPCR Master Mix Reference Dye No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Brilliant II QPCR Master Mix Reference Dye No specific data.

Ingestion : Brilliant II QPCR Master Mix Reference Dye No specific data.

Skin contact : Brilliant II QPCR Master Mix Reference Dye No specific data.

Eye contact : Brilliant II QPCR Master Mix Reference Dye No specific data.

SECTION 11: Toxicological information

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.

General : Brilliant II QPCR Master Mix Reference Dye No known significant effects or critical hazards.

Carcinogenicity : Brilliant II QPCR Master Mix Reference Dye No known significant effects or critical hazards.

Mutagenicity : Brilliant II QPCR Master Mix Reference Dye No known significant effects or critical hazards.

Reproductive toxicity : Brilliant II QPCR Master Mix Reference Dye No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Glycerol	-1.76	-	Low

12.4 Mobility in soil

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SECTION 12: Ecological information

- Soil/water partition coefficient (K_{oc})** : 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 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

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

Additional 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

UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

No listed substance

Label	:	<input checked="" type="checkbox"/> Brilliant II QPCR Master Mix Reference Dye	Not applicable.
			Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

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

United States : Not determined.

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications

Not applicable.

- Date of issue/ Date of revision** : 29/04/2024
- Date of previous issue** : 29/03/2021
- Version** : 4

Notice to reader

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