

SAFETY DATA SHEET



Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, Part Number 600883

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

1.1 Product identifier

Product name : Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, Part Number 600883
Part no. (chemical kit) : 600883
Part no. : Reference Dye 600530-53
2X Brilliant III SYBR® 600882-51
Green QPCR Master Mix

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

Identified uses : Analytical reagent.
Reference Dye 0.1 ml (100 µl 1 mM)
2X Brilliant III SYBR® Green QPCR Master Mix 10 x 2 ml
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 : Reference Dye Mixture
2X Brilliant III SYBR® Mixture
Green QPCR Master Mix

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

Not classified.

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

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

Ingredients of unknown toxicity : 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%
2X Brilliant III SYBR® Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
Green QPCR Master Mix Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%

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.

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SECTION 2: Hazards identification

2.2 Label elements

Signal word	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No signal word. No signal word.
Hazard statements	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.

Precautionary statements

Prevention	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Not applicable. Not applicable.
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Response	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Not applicable. Not applicable.
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Storage	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Not applicable. Not applicable.
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Disposal	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Not applicable. Not applicable.
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Supplemental label elements	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Not applicable. Not applicable.
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Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Not applicable. Not applicable.
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Special packaging requirements

Tactile warning of danger	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Not applicable. Not applicable.
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2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	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.
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Other hazards which do not result in classification	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	None known. None known.
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SECTION 3: Composition/information on ingredients

3.1 Substances	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Mixture Mixture
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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
2X Brilliant III SYBR® Green QPCR Master Mix					
Glycerol	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

2X Brilliant III SYBR® Green 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	: 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.
	2X Brilliant III SYBR® Green QPCR Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Reference Dye	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	2X Brilliant III SYBR® Green QPCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	2X Brilliant III SYBR® Green QPCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 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.
	2X Brilliant III SYBR® Green 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.
Protection of first-aiders	: Reference Dye	No action shall be taken involving any personal risk or without suitable training.
	2X Brilliant III SYBR® Green QPCR Master Mix	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

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SECTION 4: First aid measures

Potential acute health effects

Eye contact	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No specific data. No specific data.
Inhalation	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No specific data. No specific data.
Skin contact	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No specific data. No specific data.
Ingestion	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	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.
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SECTION 5: Firefighting measures

Hazardous combustion products	: Reference Dye	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	2X Brilliant III SYBR® Green QPCR Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters	: 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.
	2X Brilliant III SYBR® Green QPCR Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: 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.
	2X Brilliant III SYBR® Green QPCR Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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

For non-emergency personnel	: 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.
	2X Brilliant III SYBR® Green 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.
For emergency responders	: 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".
	2X Brilliant III SYBR® Green 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".

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SECTION 6: Accidental release measures

6.2 Environmental precautions	: 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).
	2X Brilliant III SYBR® Green 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: 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.
	2X Brilliant III SYBR® Green 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.

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.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Reference Dye	Put on appropriate personal protective equipment (see Section 8).
	2X Brilliant III SYBR® Green QPCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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.
	2X Brilliant III SYBR® Green 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: 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.
	2X Brilliant III SYBR® Green 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

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SECTION 7: Handling and storage

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	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	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 III SYBR® Green QPCR Master Mix Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m ³ 8 hours. Form: mist

Biological exposure indices

None 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

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SECTION 8: Exposure controls/personal 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** : Reference Dye Liquid.
2X Brilliant III SYBR® Liquid.
Green QPCR Master Mix
- Colour** : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix
- Odour** : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix
- Odour threshold** : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix
- Melting point/freezing point** : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix
- Initial boiling point and boiling range** : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix
- Flammability** : Reference Dye Not applicable.
2X Brilliant III SYBR® Not applicable.
Green QPCR Master Mix
- Upper/lower flammability or explosive limits** : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix

Flash point :			Closed cup		Open cup	
	Ingredient name		°C	Method	°C	Method
	2X Brilliant III SYBR® Green QPCR Master Mix					
	Dimethyl sulfoxide	87	ASTM D 93	87		
	Glycerol			177		

Auto-ignition temperature :

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SECTION 9: Physical and chemical properties

Ingredient name	°C	Method
2X Brilliant III SYBR® Green QPCR Master Mix		
Dimethyl sulfoxide	300 to 302	
Glycerol	370	

Decomposition temperature : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix

pH : Reference Dye 8
2X Brilliant III SYBR® 7.8
Green QPCR Master Mix

Viscosity : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix

Solubility(ies)	Media	Result
	Reference Dye water	Soluble
	2X Brilliant III SYBR® Green QPCR Master Mix water	Soluble

Partition coefficient: n-octanol/water : Reference Dye Not applicable.
2X Brilliant III SYBR® Not applicable.
Green QPCR Master Mix

Vapour pressure	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	Reference Dye						
	water	23.8	3.2		92.258	12.3	
	2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
	2X Brilliant III SYBR® Green QPCR Master Mix						
	water	23.8	3.2		92.258	12.3	
	Dimethyl sulfoxide	0.42	0.056	EU A.4			

Evaporation rate : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix

Relative density : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix

Vapour density : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix

Explosive properties : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix

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SECTION 9: Physical and chemical properties

Oxidising properties : Reference Dye Not available.
2X Brilliant III SYBR® Not available.
Green QPCR Master Mix

Particle characteristics

Median particle size : Reference Dye Not applicable.
2X Brilliant III SYBR® Not applicable.
Green QPCR Master Mix

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : Reference Dye No specific test data related to reactivity available for this product or its ingredients.
2X Brilliant III SYBR® No specific test data related to reactivity available for this product or its ingredients.
Green QPCR Master Mix

10.2 Chemical stability : Reference Dye The product is stable.
2X Brilliant III SYBR® The product is stable.
Green QPCR Master Mix

10.3 Possibility of hazardous reactions : Reference Dye Under normal conditions of storage and use, hazardous reactions will not occur.
2X Brilliant III SYBR® Under normal conditions of storage and use, hazardous reactions will not occur.
Green QPCR Master Mix

10.4 Conditions to avoid : Reference Dye No specific data.
2X Brilliant III SYBR® No specific data.
Green QPCR Master Mix

10.5 Incompatible materials : Reference Dye May react or be incompatible with oxidising materials.
2X Brilliant III SYBR® May react or be incompatible with oxidising materials.
Green QPCR Master Mix

10.6 Hazardous decomposition products : Reference Dye Under normal conditions of storage and use, hazardous decomposition products should not be produced.
2X Brilliant III SYBR® Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Green QPCR Master Mix

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.

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SECTION 11: Toxicological information

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 : Reference Dye Not available.
2X Brilliant III SYBR® Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Green QPCR Master Mix

Potential acute health effects

Inhalation : Reference Dye No known significant effects or critical hazards.
2X Brilliant III SYBR® No known significant effects or critical hazards.
Green QPCR Master Mix

Ingestion : Reference Dye No known significant effects or critical hazards.
2X Brilliant III SYBR® No known significant effects or critical hazards.
Green QPCR Master Mix

Skin contact : Reference Dye No known significant effects or critical hazards.
2X Brilliant III SYBR® No known significant effects or critical hazards.
Green QPCR Master Mix

Eye contact : Reference Dye No known significant effects or critical hazards.
2X Brilliant III SYBR® No known significant effects or critical hazards.
Green QPCR Master Mix

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Reference Dye No specific data.
2X Brilliant III SYBR® No specific data.
Green QPCR Master Mix

Ingestion : Reference Dye No specific data.
2X Brilliant III SYBR® No specific data.
Green QPCR Master Mix

Skin contact : Reference Dye No specific data.
2X Brilliant III SYBR® No specific data.
Green QPCR Master Mix

Eye contact : Reference Dye No specific data.
2X Brilliant III SYBR® No specific data.
Green QPCR Master Mix

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

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SECTION 11: Toxicological information

General	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards. 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.

12.4 Mobility in soil

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 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

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SECTION 13: Disposal considerations

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 or ID 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

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

Not listed.

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SECTION 15: Regulatory information

Label : Reference Dye Not applicable.
2X Brilliant III SYBR® Green Not applicable.
QPCR Master Mix

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

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

Australia : Not determined.
Canada : Not determined.
China : Not determined.
Eurasian Economic Union : **Russian Federation inventory**: All components are listed or exempted.
Japan : **Japan inventory (CSCL)**: Not determined.
Japan inventory (ISHL): Not determined.
New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

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

Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, Part Number 600883

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 : 28/03/2023

Date of previous issue : No previous validation

Version : 1

Notice to reader

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