SAFETY DATA SHEET

Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Sample Size, Part Number 930882

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 Sample Size, Part Number 930882
Part no. (chemical kit): 930882
Part no.: Brilliant III SYBR® Green QPCR Master Mix Sample Size 930882-51
Reference Dye 600530-53

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

Material uses: Analytical reagent.

- Brilliant III SYBR® Green QPCR Master Mix Sample Size 1 ml
- Reference Dye (100 µl 1 mM)

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
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: Brilliant III SYBR® Green QPCR Master Mix Sample Size Mixture
Reference Dye Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.

Ingredients of unknown toxicity: Brilliant III SYBR® Green QPCR Master Mix Sample Size 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: 10 - 30%
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%
Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%

Ingredients of unknown ecotoxicity: Reference Dye Contains 2.4% of components with unknown hazards to the aquatic environment
SECTION 2: Hazards identification

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

Signal word
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
No signal word.

Hazard statements
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
No known significant effects or critical hazards.

Precautionary statements

Prevention
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
Not applicable.

Response
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
Not applicable.

Storage
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
Not applicable.

Disposal
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
Not applicable.

Hazardous ingredients
: Reference Dye
Not applicable.

Supplemental label elements
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
Safety data sheet available on request.

Special packaging requirements

Tactile warning of danger
: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye
Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
: Brilliant III SYBR® Green QPCR Master Mix Sample Size 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.
Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Sample Size, Part Number 930882

SECTION 2: Hazards identification

Other hazards which do not result in classification:
Brilliant III SYBR® Green QPCR Master Mix Sample Size: None known.
Reference Dye: None known.

SECTION 3: Composition/information on ingredients

3.1 Substances:
Brilliant III SYBR® Green QPCR Master Mix Sample Size:

Reference Dye:

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type:
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures:
Eye contact:
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:
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact:
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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Date of previous issue: 30/04/2018
Version: 3
**SECTION 4: First aid measures**

**Ingestion**: Brilliant III SYBR® Green QPCR Master Mix Sample Size  
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Reference Dye**: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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**: Brilliant III SYBR® Green QPCR Master Mix Sample Size  
No action shall be taken involving any personal risk or without suitable training.

**Reference Dye**: No action shall be taken involving any personal risk or without suitable training.

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

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
</tbody>
</table>

**Over-exposure signs/symptoms**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No specific data.</td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No specific data.</td>
<td></td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No specific data.</td>
<td></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No specific data.</td>
<td></td>
</tr>
</tbody>
</table>

**4.3 Indication of any immediate medical attention and special treatment needed**
SECTION 4: First aid measures

Notes to physician

Brilliant III SYBR® Green QPCR Master Mix Sample Size

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.

Reference Dye

Specific treatments

Brilliant III SYBR® Green QPCR Master Mix Sample Size

No specific treatment.

Reference Dye

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Brilliant III SYBR® Green QPCR Master Mix Sample Size

Use an extinguishing agent suitable for the surrounding fire.

Reference Dye

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

Brilliant III SYBR® Green QPCR Master Mix Sample Size

None known.

Reference Dye

None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Decomposition products may include the following materials:

- carbon dioxide
- carbon monoxide
- sulfur oxides
- halogenated compounds
- metal oxide/oxides

Reference Dye

Decomposition products may include the following materials:

- carbon dioxide
- carbon monoxide
- nitrogen oxides
- halogenated compounds
- metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

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

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
SECTION 5: Firefighting measures

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

Brilliant III SYBR®
Green QPCR Master Mix Sample Size

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

Brilliant III SYBR®
Green QPCR Master Mix Sample Size

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

Brilliant III SYBR®
Green QPCR Master Mix Sample Size

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

Brilliant III SYBR®
Green QPCR Master Mix Sample Size

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

Brilliant III SYBR®
Green QPCR Master Mix Sample Size

Reference Dye

Put on appropriate personal protective equipment (see Section 8).
SECTION 7: Handling and storage

Advice on general occupational hygiene: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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.

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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.

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.

7.3 Specific end use(s)

Recommendations: Brilliant III SYBR® Green QPCR Master Mix Sample Size
Industrial applications, Professional applications.

Recommendations: Reference Dye
Industrial applications, Professional applications.

Industrial sector specific solutions: Brilliant III SYBR® Green QPCR Master Mix Sample Size
Not applicable.

Industrial sector specific solutions: Reference Dye
Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>EH40/2005 WELs (United Kingdom (UK), 8/2018). TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.


Date of issue/Date of revision: 11/08/2020  Date of previous issue: 30/04/2018  Version: 3
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**

- **Physical state**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Liquid.
- **Reference Dye**: Not available.

- **Melting point/freezing point**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

- **Initial boiling point and boiling range**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

- **Flash point**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

- **Evaporation rate**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

- **Flammability (solid, gas)**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not applicable.
- **Reference Dye**: Not applicable.

- **Upper/lower flammability or explosive limits**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

- **Vapour pressure**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

- **Vapour density**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

- **Relative density**: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

**pH**

- Brilliant III SYBR® Green QPCR Master Mix Sample Size 7.8
- **Reference Dye**: 8

**Odour**

- Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.

**Odour threshold**

- Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
- **Reference Dye**: Not available.
## SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td></td>
</tr>
</tbody>
</table>

### 10.2 Chemical stability

<table>
<thead>
<tr>
<th>Property</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td></td>
</tr>
</tbody>
</table>

### 10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>Property</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td></td>
</tr>
</tbody>
</table>

### 10.4 Conditions to avoid

<table>
<thead>
<tr>
<th>Property</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>No specific data.</td>
<td>No specific data.</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

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

10.6 Hazardous decomposition products : Brilliant III SYBR® Green QPCR Master Mix Sample Size 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
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)

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>Category 3</td>
<td>-</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.


Potential acute health effects

Inhalation : Brilliant III SYBR® Green QPCR Master Mix Sample Size No known significant effects or critical hazards. Reference Dye No known significant effects or critical hazards.
SECTION 11: Toxicological information

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

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

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

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

Eye contact: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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

General: Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
No known significant effects or critical hazards.

Carcinogenicity: Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
No known significant effects or critical hazards.

Mutagenicity: Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
No known significant effects or critical hazards.

Teratogenicity: Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
No known significant effects or critical hazards.

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**SECTION 11: Toxicological information**

**Developmental effects**
- Brilliant III SYBR® Green QPCR Master Mix Sample Size
- Reference Dye
  - No known significant effects or critical hazards.

**Fertility effects**
- Brilliant III SYBR® Green QPCR Master Mix Sample Size
- Reference Dye
  - No known significant effects or critical hazards.

**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 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

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

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

Label: Brilliant III SYBR® Green QPCR Master Mix Sample Size, Reference Dye
Not applicable.

Other EU regulations
Industrial emissions (integrated pollution prevention and control) - Air
Ozone depleting substances (1005/2009/EU)
Not listed.

Prior Informed Consent (PIC) (649/2012/EU)
Not listed.

Seveso Directive
This product is not controlled under the Seveso Directive.

International regulations
SECTION 15: Regulatory information

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 : All components are listed or exempted.
Europe : Not determined.
Japan : Japan inventory (ENCS): Not determined.
Japanese 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.

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]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td></td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements
SECTION 16: Other information

Reference Dye
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

Full text of classifications [CLP/GHS]

<table>
<thead>
<tr>
<th>Reference Dye</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>SKIN CORROSION/IRRITATION - Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3</td>
</tr>
</tbody>
</table>

Notice to reader

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