SAFETY DATA SHEET
Brilliant III Ultra-Fast QPCR Master Mix, Part Number 600880

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

1.1 Product identifier
Product name: Brilliant III Ultra-Fast QPCR Master Mix, Part Number 600880
Part No. (Kit): 600880
Part No.: 2X Brilliant III QPCR 600880-51
Master Mix 600530-53
Reference Dye

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

<table>
<thead>
<tr>
<th>Identified uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical reagent.</td>
</tr>
<tr>
<td>2X Brilliant III QPCR Master Mix</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III QPCR Master Mix</td>
</tr>
<tr>
<td>Reference Dye</td>
</tr>
</tbody>
</table>

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

Ingredients of unknown toxicity:

| Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% |
| Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% |
| Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% |
| Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% |
| Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10% |
| Reference Dye |

Ingredients of unknown ecotoxicity:

| Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.4% |
| Reference Dye |

See Section 16 for the full text of the H statements declared above.
SECTION 2: Hazards identification

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

2.2 Label elements

Signal word : 2X Brilliant III QPCR Master Mix Reference Dye
No signal word.

Hazard statements : 2X Brilliant III QPCR Master Mix Reference Dye
No known significant effects or critical hazards.

Precautionary statements

Prevention : 2X Brilliant III QPCR Master Mix Reference Dye
Not applicable.

Response : 2X Brilliant III QPCR Master Mix Reference Dye
Not applicable.

Storage : 2X Brilliant III QPCR Master Mix Reference Dye
Not applicable.

Disposal : 2X Brilliant III QPCR Master Mix Reference Dye
Not applicable.

Hazardous ingredients : Reference Dye
Not applicable.

Supplemental label elements

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

: 2X Brilliant III QPCR Master Mix Reference Dye
Safety data sheet available on request.

Special packaging requirements

Tactile warning of danger : 2X Brilliant III QPCR Master Mix Reference Dye
Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : 2X Brilliant III QPCR Master Mix Reference Dye
None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III QPCR Master Mix</td>
<td></td>
<td></td>
<td></td>
<td>2/14</td>
</tr>
<tr>
<td></td>
<td>EC: 200-289-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAS: 56-81-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol</td>
<td>CAS: 1185-53-1</td>
<td></td>
<td>Eye Irrit. 2, H319</td>
<td></td>
</tr>
</tbody>
</table>

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SECTION 3: Composition/information on ingredients

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 : 2X Brilliant III QPCR Master Mix
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Reference Dye
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Inhalation : 2X Brilliant III QPCR Master Mix
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Reference Dye
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : 2X Brilliant III QPCR Master Mix
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.

Ingestion : 2X Brilliant III QPCR Master Mix
No action shall be taken involving any personal risk or without suitable training.
Reference Dye
No action shall be taken involving any personal risk or without suitable training.

Protection of first-aider

Potential acute health effects

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**SECTION 4: First aid measures**

| Eye contact | 2X Brilliant III QPCR Master Mix | No known significant effects or critical hazards. |
| Inhilation | 2X Brilliant III QPCR Master Mix | No known significant effects or critical hazards. |
| Skin contact | 2X Brilliant III QPCR Master Mix | No known significant effects or critical hazards. |
| Ingestion | 2X Brilliant III QPCR Master Mix | No known significant effects or critical hazards. |

**Over-exposure signs/symptoms**

| Eye contact | 2X Brilliant III QPCR Master Mix | No specific data. |
| Inhilation | 2X Brilliant III QPCR Master Mix | No specific data. |
| Skin contact | 2X Brilliant III QPCR Master Mix | No specific data. |
| Ingestion | 2X Brilliant III QPCR Master Mix | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| Notes to physician | 2X Brilliant III QPCR Master Mix | 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 | 2X Brilliant III QPCR Master Mix | No specific treatment. |

**SECTION 5: Firefighting measures**

5.1 Extinguishing media

| Suitable extinguishing media | 2X Brilliant III QPCR Master Mix | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | 2X Brilliant III QPCR Master Mix | None known. |

5.2 Special hazards arising from the substance or mixture

| Hazards from the substance or mixture | 2X Brilliant III QPCR Master Mix | 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: 2X Brilliant III QPCR Master Mix

Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- 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.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

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:

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III QPCR Master Mix</td>
<td>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).</td>
</tr>
<tr>
<td>Reference Dye</td>
<td>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).</td>
</tr>
</tbody>
</table>

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

<table>
<thead>
<tr>
<th>Substance</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III QPCR Master Mix</td>
<td>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.</td>
</tr>
<tr>
<td>Reference Dye</td>
<td>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.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>Reference Dye</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>

Advice on general occupational hygiene

<table>
<thead>
<tr>
<th>Substance</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III QPCR Master Mix</td>
<td>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.</td>
</tr>
<tr>
<td>Reference Dye</td>
<td>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.</td>
</tr>
</tbody>
</table>

7.2 Conditions for safe storage, including any incompatibilities

Storage

<table>
<thead>
<tr>
<th>Substance</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III QPCR Master Mix</td>
<td>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.</td>
</tr>
<tr>
<td>Reference Dye</td>
<td>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.</td>
</tr>
</tbody>
</table>

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SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations:
- 2X Brilliant III QPCR Master Mix
- Reference Dye

Industrial sector specific solutions:
- 2X Brilliant III QPCR Master Mix
- Reference Dye

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>2X Brilliant III QPCR Master Mix</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
</tbody>
</table>

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.
SECTION 8: Exposure controls/personal protection

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 should 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state: 2X Brilliant III QPCR Master Mix Liquid.

Reference Dye

Colour: 2X Brilliant III QPCR Master Mix Not available.

Reference Dye Not available.

Odour: 2X Brilliant III QPCR Master Mix Not available.

Reference Dye Not available.

Odour threshold: 2X Brilliant III QPCR Master Mix Not available.

Reference Dye Not available.

pH: 2X Brilliant III QPCR Master Mix 7.8

Reference Dye 8

Melting point/freezing point: 2X Brilliant III QPCR Master Mix Not available.

Reference Dye Not available.

Initial boiling point and boiling range: 2X Brilliant III QPCR Master Mix Not available.

Reference Dye Not available.

Flash point: 2X Brilliant III QPCR Master Mix Not available.

Reference Dye Not available.

Evaporation rate: 2X Brilliant III QPCR Master Mix Not available.

Reference Dye Not available.

Flammability (solid, gas): 2X Brilliant III QPCR Master Mix Not applicable.

Reference Dye Not applicable.

Upper/lower flammability or explosive limits: 2X Brilliant III QPCR Master Mix Not available.

Reference Dye Not available.

Date of issue/Date of revision: 21/08/2017
SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</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>2X Brilliant III QPCR Master Mix</th>
<th>No specific test data related to reactivity available for this product or its ingredients.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reference Dye</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
</tbody>
</table>

10.2 Chemical stability

<table>
<thead>
<tr>
<th>Property</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reference Dye</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>Property</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>Under normal conditions of storage and use, hazardous reactions will not occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reference Dye</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
</tbody>
</table>

10.4 Conditions to avoid

<table>
<thead>
<tr>
<th>Property</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reference Dye</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 21/08/2017
SECTION 10: Stability and reactivity

10.5 Incompatible materials

- 2X Brilliant III QPCR Master Mix
- Reference Dye

May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

- 2X Brilliant III QPCR Master Mix
- 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
Not available.

Irritation/Corrosion

Conclusion/Summary: Not available.

Sensitiser

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 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure

- 2X Brilliant III QPCR Master Mix
- Reference Dye

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation
- 2X Brilliant III QPCR Master Mix
- Reference Dye

No known significant effects or critical hazards.

Ingestion
- 2X Brilliant III QPCR Master Mix
- Reference Dye

No known significant effects or critical hazards.

Skin contact
- 2X Brilliant III QPCR Master Mix
- Reference Dye

No known significant effects or critical hazards.

Eye contact
- 2X Brilliant III QPCR Master Mix
- Reference Dye

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation
- 2X Brilliant III QPCR Master Mix
- Reference Dye

No specific data.
SECTION 11: Toxicological information

Ingestion:
- 2X Brilliant III QPCR Master Mix: No specific data.
- Reference Dye: No specific data.

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

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

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

Short term exposure:
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

Long term exposure:
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

Potential chronic health effects:

General:
- 2X Brilliant III QPCR Master Mix: No known significant effects or critical hazards.
- Reference Dye: No known significant effects or critical hazards.

Carcinogenicity:
- 2X Brilliant III QPCR Master Mix: No known significant effects or critical hazards.
- Reference Dye: No known significant effects or critical hazards.

Mutagenicity:
- 2X Brilliant III QPCR Master Mix: No known significant effects or critical hazards.
- Reference Dye: No known significant effects or critical hazards.

Teratogenicity:
- 2X Brilliant III QPCR Master Mix: No known significant effects or critical hazards.
- Reference Dye: No known significant effects or critical hazards.

Developmental effects:
- 2X Brilliant III QPCR Master Mix: No known significant effects or critical hazards.
- Reference Dye: No known significant effects or critical hazards.

Fertility effects:
- 2X Brilliant III QPCR Master Mix: No known significant effects or critical hazards.
- 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
Brilliant III Ultra-Fast QPCR Master Mix, Part Number 600880

SECTION 12: Ecological information

| Soil/water partition coefficient (K<sub>OC</sub>) | Not available. |
| Mobility | Not available. |

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.
vPvB : Not applicable.

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 : Not regulated.

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 Annex II of Marpol and the IBC Code : 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.

Date of issue/Date of revision : 21/08/2017 12/14
SECTION 15: Regulatory information

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

Other EU regulations

Ozone depleting substances (1005/2009/EU)
Not applicable.

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

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 (Annexes A, B, C, E)
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.
  Japan inventory (ISHL): Not determined.
Malaysia: 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.

Date of issue/Date of revision: 21/08/2017

Brilliant III Ultra-Fast QPCR Master Mix, Part Number 600880

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]
- DNEL = Derived No Effect Level
- EUH = EU Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

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

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

Full text of classifications [CLP/GHS]

Reference Dye
- Eye Irrit. 2, H319: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
- Skin Irrit. 2, H315: SKIN CORROSION/IRRITATION - Category 2
- STOT SE 3, H335: SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

Date of issue/Date of revision: 21/08/2017
Date of previous issue: 26/01/2016
Version: 2

Notice to reader

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