SAFETY DATA SHEET
Brilliant II SYBR Green QPCR Master Mix - 10-pack, Part Number 600831

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

1.1 Product identifier

Product name: Brilliant II SYBR Green QPCR Master Mix - 10-pack, Part Number 600831
Part No. (Kit): 600831
Part No.: 2× Brilliant II SYBR Green QPCR Master Mix 600828-51
Reference Dye 600530-53

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th>Quantity/Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical reagent.</td>
<td>5 ml (2.5 ml / Tube)</td>
</tr>
<tr>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>5 ml (2.5 ml / Tube)</td>
</tr>
<tr>
<td>Reference Dye</td>
<td>0.1 ml</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: 2× Brilliant II SYBR Green QPCR Master Mix
Reference Dye

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

Ingredients of unknown toxicity: 2× Brilliant II SYBR Green QPCR Master Mix
Reference Dye

Not applicable.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2.4%

Ingredients of unknown ecotoxicity: 2× Brilliant II SYBR Green QPCR Master Mix
Reference Dye

Not applicable.

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

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

Date of issue/Date of revision: 29/02/2016
SECTION 2: Hazards identification

Signal word: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye

Hazard statements: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
No known significant effects or critical hazards.

Precautionary statements:

Prevention: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
Not applicable.

Response: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
Not applicable.

Storage: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
Not applicable.

Disposal: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
Not applicable.

Hazardous ingredients: No hazardous ingredient

Supplemental label elements: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
Safety data sheet available on request.

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

Tactile warning of danger: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
Not applicable.

2.3 Other hazards

Other hazards which do not result in classification: 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Type</th>
</tr>
</thead>
</table>

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

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Brilliant II SYBR Green QPCR Master Mix - 10-pack, Part Number 600831

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

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | 2× Brilliant II 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. |
| Reference Dye | | |
| Inhalation | 2× Brilliant II 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. |
| 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. |
| Skin contact | 2× Brilliant II 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. |
| Reference Dye | | |
| Ingestion | 2× Brilliant II SYBR Green 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. |

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

| Eye contact | 2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
| Reference Dye | | |
| Inhalation | 2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
| Reference Dye | | |

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SECTION 4: First aid measures

| Skin contact | 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | No known significant effects or critical hazards. |
| Ingestion    | 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| Eye contact | 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | No specific data. |
| Inhalation  | 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | No specific data. |

| Skin contact | 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | No specific data. |
| Ingestion    | 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

| 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |

Specific treatments


SECTION 5: Firefighting measures

5.1 Extinguishing media

| Suitable extinguishing media | 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | None known. |

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

| 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides. |

5.3 Advice for firefighters

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SECTION 5: Firefighting measures

Special precautions for fire-fighters

2× Brilliant II 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.

Reference Dye

Special protective equipment for fire-fighters

2× Brilliant II 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.

Reference Dye

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

2× Brilliant II 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.

Reference Dye

For emergency responders

2× Brilliant II 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".

Reference Dye

6.2 Environmental precautions

2× Brilliant II 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).

Reference Dye

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

2× Brilliant II 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.

Reference Dye

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SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures
- 2× Brilliant II SYBR Green QPCR Master Mix
- Reference Dye

Advice on general occupational hygiene
- 2× Brilliant II SYBR Green QPCR Master Mix
- Reference Dye

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- 2× Brilliant II SYBR Green QPCR Master Mix
- Reference Dye

- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

- 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.

7.3 Specific end use(s)

Recommendations
- 2× Brilliant II SYBR Green QPCR Master Mix
- Reference Dye

Industrial sector specific solutions
- 2× Brilliant II SYBR Green 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>2× Brilliant II SYBR Green QPCR Master Mix Glycerol</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
</tbody>
</table>

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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**

**Physical state**

<table>
<thead>
<tr>
<th>Product</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Reference Dye</td>
<td>Liquid.</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**

29/02/2016
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>2× Brilliant II SYBR Green QPCR Master Mix</th>
<th>Reference Dye</th>
<th>dre</th>
<th>0°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
<td>Not available.</td>
<td>408</td>
<td>8°C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available.</td>
<td>Not available.</td>
<td>409</td>
<td>100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>410</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td>Not available.</td>
<td>411</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>412</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not available.</td>
<td>Not available.</td>
<td>413</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
<td>Not available.</td>
<td>414</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>415</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>416</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>417</td>
<td></td>
</tr>
</tbody>
</table>
**SECTION 9: Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>2× Brilliant II SYBR Green QPCR Master Mix</th>
<th>Reference Dye</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition temperature</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<table>
<thead>
<tr>
<th>Subsection</th>
<th>2× Brilliant II SYBR Green QPCR Master Mix</th>
<th>Reference Dye</th>
<th>No specific test data related to reactivity available for this product or its ingredients.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1 Reactivity</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>10.2 Chemical stability</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>10.3 Possibility of hazardous reactions</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>10.4 Conditions to avoid</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>No specific data.</td>
</tr>
<tr>
<td>10.5 Incompatible materials</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>10.6 Hazardous decomposition products</td>
<td>2× Brilliant II SYBR Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>
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.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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:

- 2× Brilliant II SYBR Green QPCR Master Mix Reference Dye

Potential acute health effects

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

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

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

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

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:
2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
No specific data.

Ingestion:
2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
No specific data.

Skin contact:
2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
No specific data.

Eye contact:
2× Brilliant II SYBR Green QPCR Master Mix Reference Dye
No specific data.

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

Short term exposure

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SECTION 11: Toxicological information

| Potential immediate effects | 2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
| Potential delayed effects  | Reference Dye | No known significant effects or critical hazards. |
| Long term exposure         | 2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
| Potential immediate effects | Reference Dye | No known significant effects or critical hazards. |
| Potential delayed effects  | 2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
| Potential chronic health effects | Reference Dye | No known significant effects or critical hazards. |

GENERAL:
2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
Reference Dye | No known significant effects or critical hazards. |

CARCINOGENICITY:
2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
Reference Dye | No known significant effects or critical hazards. |

MUTAGENICITY:
2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
Reference Dye | No known significant effects or critical hazards. |

TERATOGENICITY:
2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
Reference Dye | No known significant effects or critical hazards. |

DEVELOPMENTAL EFFECTS:
2× Brilliant II SYBR Green QPCR Master Mix | No known significant effects or critical hazards. |
Reference Dye | No known significant effects or critical hazards. |

FERTILITY EFFECTS:
2× Brilliant II SYBR Green 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
Soil/water partition coefficient (KOC): 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.

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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

Regulatory 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.

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

2x Brilliant II SYBR Green QPCR Master Mix
Reference Dye
Not applicable.

Other EU regulations

Europe inventory: Not determined.

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

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

National regulations

International regulations
SECTION 15: Regulatory information

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 Inform Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

International lists
National inventory

<table>
<thead>
<tr>
<th>Country</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Canada</td>
<td>Not determined.</td>
</tr>
<tr>
<td>China</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
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</tbody>
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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]
DNEL = Derived No Effect Level
EUH statement = CLP-specific 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]

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<th>Classification</th>
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<td>H319</td>
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Date of issue/Date of revision: 29/02/2016
SECTION 16: Other information

Date of previous issue : No previous validation.
Version : 1

Notice to reader

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Date of issue/Date of revision : 29/02/2016