**SAFETY DATA SHEET**

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

### Section 1. Identification

| Product identifier | Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, Part Number 600883 |
| Part No. (Chemical Kit) | 600883 |
| Part No. | Reference Dye 600530-53 |
| | 2X Brilliant III SYBR® Green QPCR Master Mix 600882-51 |

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

Analytical reagent.

10/pk

| Reference Dye | 0.1 ml (100 µl  1 mM) |
| 2X Brilliant III SYBR® Green QPCR Master Mix | 10 x 2 ml |

**Supplier/Manufacturer**

Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

**Emergency telephone number (with hours of operation)**

CHEMTREC®: +(61)-290372994

### Section 2. Hazard(s) identification

**Classification of the substance or mixture**

Not classified.

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

**GHS label elements**

| Signal word | No signal word. |
| 2X Brilliant III SYBR® Green QPCR Master Mix | No signal word. |

| Hazard statements | No known significant effects or critical hazards. |
| 2X Brilliant III SYBR® Green QPCR Master Mix | No known significant effects or critical hazards. |

**Precautionary statements**

| Prevention | Not applicable. |
| 2X Brilliant III SYBR® Green QPCR Master Mix | Not applicable. |

| Response | Not applicable. |
| 2X Brilliant III SYBR® Green QPCR Master Mix | Not applicable. |

**Date of issue/Date of revision**: 22/01/2018

**Date of previous issue**: 28/10/2015

**Version**: 5
Section 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Storage</th>
<th>Reference Dye</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disposal</th>
<th>Reference Dye</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supplemental label elements</th>
<th>Reference Dye</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional warning phrases</th>
<th>Reference Dye</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other hazards which do not result in classification</th>
<th>Reference Dye</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Reference Dye</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>≥10 - ≤30</td>
<td>56-81-5</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>≤10</td>
<td>67-68-5</td>
</tr>
</tbody>
</table>

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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

<table>
<thead>
<tr>
<th>Description of necessary first aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td></td>
</tr>
<tr>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td></td>
</tr>
<tr>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
</tbody>
</table>
Section 4. First aid measures

Ingestion : 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.

2X Brilliant III 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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

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

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

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

Over-exposure signs/symptoms

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

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

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

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

Indication of immediate medical attention and special treatment needed, if necessary

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

Specific treatments : Reference Dye
No specific treatment.
2X Brilliant III SYBR® Green QPCR Master Mix
No specific treatment.

Protection of first-aiders : Reference Dye
No action shall be taken involving any personal risk or without suitable training.
2X Brilliant III SYBR® Green QPCR Master Mix
No action shall be taken involving any personal risk or without suitable training.
Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media:
- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix

None known.

Specific hazards arising from the chemical:
- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix

In a fire or if heated, a pressure increase will occur and the container may burst.

Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- nitrogen oxides
- halogenated compounds
- metal oxide/oxides

Hazardous thermal decomposition products:
- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix

Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- sulfur oxides
- halogenated compounds
- metal oxide/oxides

Special protective actions for fire-fighters:
- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:
- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Section 6. Accidental release measures

For emergency responders : Reference Dye

2X Brilliant III SYBR® Green QPCR Master Mix

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Reference Dye

2X Brilliant III SYBR® Green QPCR Master Mix

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

2X Brilliant III Ultra-Fast 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.

Methods and material for containment and cleaning up

Methods for cleaning up : Reference Dye

2X Brilliant III SYBR® Green QPCR Master Mix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Reference Dye

2X Brilliant III SYBR® Green QPCR Master Mix

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Reference Dye

2X Brilliant III SYBR® Green QPCR Master Mix

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

Reference Dye

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

2X Brilliant III SYBR® Green QPCR Master Mix

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have 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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours. DFG MAC-values list (Germany, 7/2015). Absorbed through skin. PEAK: 320 mg/m³, 4 times per shift, 15 minutes. TWA: 160 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours.</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

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

Date of issue/Date of revision: 22/01/2018
Date of previous issue: 28/10/2015
Version: 5
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Section 8. Exposure controls and personal protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

**Appearance**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Reference Dye</th>
<th>Liquid.</th>
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<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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</tr>
<tr>
<td>Colour</td>
<td>Reference Dye</td>
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</tr>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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<td></td>
</tr>
<tr>
<td>Odour</td>
<td>Reference Dye</td>
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<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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<tr>
<td>Odour threshold</td>
<td>Reference Dye</td>
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<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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<td>pH</td>
<td>Reference Dye</td>
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<td>7.8</td>
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<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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<tr>
<td>Vapour pressure</td>
<td>Reference Dye</td>
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<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
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<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>Reference Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

**Solubility**
- Reference Dye: Easily soluble in the following materials: cold water and hot water.
- 2X Brilliant III SYBR® Green QPCR Master Mix: Soluble in the following materials: cold water and hot water.

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

**Auto-ignition temperature**
- Reference Dye: Not available.
- 2X Brilliant III SYBR® Green QPCR Master Mix: Not available.

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

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

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

Section 10. Stability and reactivity

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

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

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

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

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

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

Section 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>40000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>14500 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Irritation/Corrosion**

- Date of issue/Date of revision: 22/01/2018
- Date of previous issue: 28/10/2015
- Version: 5
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td></td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 milligrams</td>
<td></td>
</tr>
</tbody>
</table>

Sensitisation
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure
Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix
Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

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

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

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

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

Symptoms related to the physical, chemical and toxicological characteristics
Section 11. Toxicological information

| Eye contact | Reference Dye | 2X Brilliant III SYBR® Green QPCR Master Mix | No specific data. |
| Inhilation | Reference Dye | 2X Brilliant III SYBR® Green QPCR Master Mix | No specific data. |
| Skin contact | Reference Dye | 2X Brilliant III SYBR® Green QPCR Master Mix | No specific data. |
| Ingestion | Reference Dye | 2X Brilliant III SYBR® Green QPCR Master Mix | 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
Not available.

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

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

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

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

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

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

Numerical measures of toxicity

Acute toxicity estimates
Not available.
Section 12. Ecological information

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td></td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute LC50 25000 ppm Fresh water</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute LC50 34000000 μg/l Fresh water Chronic NOEC 100 ul/L Marine water</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>-1.35</td>
<td>3.16</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

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

**Other adverse effects**

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

**ADG / IMDG / IATA**

Not regulated as Dangerous Goods according to the ADG Code.

**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.
Section 14. Transport information

Transport in bulk according to Annex II of Marpol and the IBC Code: Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons
6

Model Work Health and Safety Regulations - Scheduled Substances
No listed substance

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.

Section 16. Any other relevant information

History

Date of issue/Date of revision: 22/01/2018
Date of previous issue: 28/10/2015.
Version: 5
Section 16. Any other relevant information

Key to abbreviations:
- ADG = Australian Dangerous Goods
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- NOHSC = National Occupational Health and Safety Commission
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification

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

References:
- Not available.

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