SAFETY DATA SHEET

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

Section 1. Identification

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

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

Analytical reagent.
2X Brilliant III QPCR Master Mix 2 x 2 ml
Reference Dye 0.1 ml (100 µl 1 mM)

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.

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%

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
### Section 2. Hazard(s) identification

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

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

**Supplemental label elements**
- 2X Brilliant III QPCR Master Mix: Not applicable.
- Reference Dye: Not applicable.

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

### Section 3. Composition and ingredient information

**Substance/mixture**
- 2X Brilliant III QPCR Master Mix: Mixture
- Reference Dye: Mixture

<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>
</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

**Description of necessary first aid measures**

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

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Section 4. First aid measures

**Ingestion**

- **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.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Over-exposure signs/symptoms**

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

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

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

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

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

**Notes to physician**

- 2X Brilliant III 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**

- 2X Brilliant III QPCR Master Mix
- Reference Dye

- No specific treatment.

**Protection of first-aiders**

- 2X Brilliant III QPCR Master Mix
- Reference Dye

- No action shall be taken involving any personal risk or without suitable training.

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**Date of previous issue**: 26/01/2016  
**Version**: 5  
**Pages**: 3/13
Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Firefighting measures

**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. |

| Specific hazards arising from the chemical | 2X Brilliant III QPCR Master Mix | In a fire or if heated, a pressure increase will occur and the container may burst. |

| Hazardous thermal decomposition products | 2X Brilliant III QPCR Master Mix | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds, metal oxide/oxides |

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

Environmental precautions:
- 2X Brilliant III QPCR Master Mix
- Reference Dye

Methods and material for containment and cleaning up:

Methods for cleaning up:
- 2X Brilliant III QPCR Master Mix
- Reference Dye

Section 7. Handling and storage

Precautions for safe handling:

Protective measures:
- 2X Brilliant III QPCR Master Mix
- Reference Dye

Advice on general occupational hygiene:
- 2X Brilliant III QPCR Master Mix
- Reference Dye
Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

2X Brilliant III 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.

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.

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 QPCR Master Mix</td>
<td>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Environmental exposure controls

<table>
<thead>
<tr>
<th>Environment</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Good general ventilation should be sufficient to control worker exposure to airborne contaminants.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

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.
### Section 8. Exposure controls and personal protection

**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.

**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.

### Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>Liquid.</th>
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<tbody>
<tr>
<td></td>
<td>Reference Dye</td>
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<tr>
<td>Colour</td>
<td>2X Brilliant III QPCR Master Mix</td>
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</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>7.8</td>
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<tr>
<td></td>
<td>Reference Dye</td>
<td>8</td>
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<tr>
<td>Melting point</td>
<td>2X Brilliant III QPCR Master Mix</td>
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<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Boiling point</td>
<td>2X Brilliant III QPCR Master Mix</td>
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<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
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<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
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<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Reference Dye</td>
<td></td>
</tr>
<tr>
<td>Solubility</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>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>2X Brilliant III QPCR Master Mix</th>
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<th>2X Brilliant III QPCR Master Mix</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition temperature</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Not available.</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Not available.</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>Reference Dye</td>
<td>Not available.</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>Reference Dye</td>
<td>Not available.</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Not available.</td>
</tr>
<tr>
<td>Reference Dye</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 10. Stability and reactivity

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

Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Property</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>No specific data related to reactivity available for this product or its ingredients.</th>
<th>2X Brilliant III QPCR Master Mix</th>
<th>No specific data related to reactivity available for this product or its ingredients.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>Reference Dye</td>
<td>The product is stable.</td>
<td>2X Brilliant III QPCR Master Mix</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Product/ingredient name</td>
<td>Result</td>
<td>Species</td>
<td>Dose</td>
<td>Exposure</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Information on toxicological effects

Date of issue/Date of revision: 21/08/2017
Date of previous issue: 26/01/2016
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 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></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 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:
- 2X Brilliant III QPCR Master Mix
- Reference Dye
Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects:

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

Inhalation:
- 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.

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

Symptoms related to the physical, chemical and toxicological characteristics:

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

Inhalation:
- 2X Brilliant III QPCR Master Mix
- Reference Dye
No specific data.
### Section 11. Toxicological information

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

#### Ingestion
- 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
- Not available.

**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.

#### 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 QPCR</td>
<td>Acute LC50 54000 mg/l Fresh</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>Master Mix Glycerol</td>
<td>water</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Persistence and degradability
Section 12. Ecological information

<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 QPCR Master Mix</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</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 QPCR Master Mix</td>
<td>-1.76</td>
<td>-</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.

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

Section 15. Regulatory information


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

International regulations


Montreal Protocol (Annexes A, B, C, E)

Date of issue/Date of revision: 21/08/2017
Date of previous issue: 26/01/2016
Version: 5
Section 15. Regulatory information

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 : 21/08/2017
Date of previous issue : 26/01/2016.
Version : 5

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>
<td></td>
</tr>
</tbody>
</table>

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader
Section 16. Any other relevant information

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