### Section 1. Identification

**Product identifier**: QPCR Library Quantitation Kit - Custom - Illumina GA, Part Number 930901  
**Part no. (chemical kit)**: 930901  
**Part no.** | Brilliant III Ultra-Fast SYBR Green QPCR Master Mix | 930901-51  
| 50X Illumina GA Primer Mix | 5190-2375  

**Relevant identified uses of the substance or mixture and uses advised against**  
**Material uses**: Analytical reagent.  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix | 40 ml (2 ml / Tube)  
50× Illumina GA Primer Mix | 10 x 0.2 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.  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
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.  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
50× Illumina GA Primer Mix  

**Hazard statements**: No known significant effects or critical hazards.  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
50× Illumina GA Primer Mix  

**Precautionary statements**  
**Prevention**: Not applicable.  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
50× Illumina GA Primer Mix  

**Response**: Not applicable.  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
50× Illumina GA Primer Mix
**Section 2. Hazard(s) identification**

**Storage**

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

Not applicable.

**Disposal**

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

Not applicable.

**Supplemental label elements**

**Additional warning phrases**

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

Not applicable.

**Other hazards which do not result in classification**

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

None known.

**Section 3. Composition and ingredient information**

**Substance/mixture**

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

Mixture

**CAS number/other identifiers**

<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**

**Description of necessary first aid measures**

**Eye contact**

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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.

**Inhalation**

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
## Section 4. First aid measures

### Skin contact
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

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

### Ingestion
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Product Details</th>
<th>Most important effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Product Details</th>
<th>Most important effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

### Indication of immediate medical attention and special treatment needed, if necessary
Section 4. First aid measures

**Notes to physician:**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - No specific treatment.

**Protection of first-aiders:**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - No action shall be taken involving any personal risk or without suitable training.

**Notes to physician:**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - No specific treatment.

**Protection of first-aiders:**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

**Extinguishing media**

**Suitable extinguishing media**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - None known.

**Specific hazards arising from the chemical**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix
  - In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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**
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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.
Section 5. Firefighting measures

Special protective equipment for fire-fighters:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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 Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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.

For emergency responders:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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).

Methods and material for containment and cleaning up:

Methods for cleaning up:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer 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.

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

- **2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix**

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

- **50X Illumina GA Primer Mix**

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

### Advice on general occupational hygiene

- **2× Brilliant III Ultra-Fast 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.

- **50X Illumina GA Primer 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.

### Conditions for safe storage, including any incompatibilities

- **2× Brilliant III Ultra-Fast 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.

- **50X Illumina GA Primer 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><strong>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</strong></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>

Date of issue/Date of revision : 30/04/2018 Date of previous issue : 03/08/2016 Version : 3
Section 8. Exposure controls and personal protection

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

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

Physical state: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Liquid.

50X Illumina GA Primer Mix Liquid.

Colour: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Not available.

50X Illumina GA Primer Mix Not available.

Odour: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Not available.

50X Illumina GA Primer Mix Not available.

Odour threshold: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Not available.

50X Illumina GA Primer Mix Not available.

pH: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Not available.

50X Illumina GA Primer Mix Not available.
### Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</th>
<th>50X Illumina GA Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Melting point</strong></td>
<td>Not available.</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>Not available.</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Lower and upper explosive (flammable) limits</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td></td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 30/04/2018
Date of previous issue: 03/08/2016
Version: 3
Section 10. Stability and reactivity

Reactivity:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

No specific test data related to reactivity available for this product or its ingredients.

Chemical stability:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

The product is stable.

Possibility of hazardous reactions:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

No specific data.

Incompatible materials:
- 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

May react or be incompatible with oxidising materials.

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 Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>14500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>40000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<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 Ultra-Fast 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></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></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>
<tr>
<td>Dimethyl sulfoxide</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

| Sensitisation                  | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |

**Sensitisation**
Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Specific target organ toxicity (single exposure)**
Not available.

**Specific target organ toxicity (repeated exposure)**
Not available.

**Aspiration hazard**
Not available.

**Information on likely routes of exposure**

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50X Illumina GA Primer Mix

**Potential acute health effects**

**Eye contact**

2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
50X Illumina GA Primer Mix
No known significant effects or critical hazards.

**Inhalation**

2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
50X Illumina GA Primer Mix
No known significant effects or critical hazards.

**Skin contact**

2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
50X Illumina GA Primer Mix
No known significant effects or critical hazards.

**Ingestion**

2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
50X Illumina GA Primer Mix
No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact**

2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
50X Illumina GA Primer Mix
No specific data.

**Inhalation**

2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
50X Illumina GA Primer Mix
No specific data.
### Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Component</th>
<th>Pesticide</th>
<th>Toxicological effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**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 Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix, No known significant effects or critical hazards.
- **Carcinogenicity**: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix, No known significant effects or critical hazards.
- **Mutagenicity**: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix, No known significant effects or critical hazards.
- **Teratogenicity**: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix, No known significant effects or critical hazards.
- **Developmental effects**: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer Mix, No known significant effects or critical hazards.
- **Fertility effects**: 2x Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50X Illumina GA Primer 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>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>Glycerol</td>
<td>Acute LC50 25000 ppm Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>Acute LC50 34000000 μg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 ul/L Marine water</td>
<td>Algae - Ulva lactuca</td>
<td>72 hours</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>2× Brilliant III Ultra-Fast 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>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>-1.76</td>
<td>3.16</td>
<td>low</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td>low</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>-1.35</td>
<td></td>
<td></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

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  : All components are listed or exempted.
China  : All components are listed or exempted.
Europe  : All components are listed or exempted.
Japan  :
  Japan inventory (ENCS): Not determined.
  Japan inventory (ISHL): Not determined.
Malaysia  : Not determined.
New Zealand  : All components are listed or exempted.
Philippines  : All components are listed or exempted.
Republic of Korea  : Not determined.
Taiwan  : All components are listed or exempted.
Thailand  : Not determined.
Turkey  : Not determined.
United States  : All components are listed or exempted.
Viet Nam  : Not determined.
Section 16. Any other relevant information

History

Date of issue/Date of revision : 30/04/2018
Date of previous issue : 03/08/2016
Version : 3

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>
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</thead>
<tbody>
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References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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