SAFETY DATA SHEET

QPCR Library Quantitation Kit - Custom - Illumina GA, Part Number 930901

Section 1. Identification

Product identifier : QPCR Library Quantitation Kit - Custom - Illumina GA, Part Number 930901
Part No. (Chemical Kit) : 930901
Part No. : 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 930901-51
QPCR Master Mix
50× Illumina GA Primer Mix 5190-2375

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

GHS label elements

Signal word : 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
No signal word.
50× Illumina GA Primer Mix
No signal word.

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

Precautionary statements

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

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

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

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

Supplemental label elements: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, 50× Illumina GA Primer Mix

None known.

Other hazards which do not result in classification:

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

None known.

Section 3. Composition and ingredient information

Substance/mixture: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, 50× 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>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>≥10 - ≤30</td>
<td>56-81-5</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></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, 50× 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, 50× 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.

Skin contact: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, 50× 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, 50× 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.

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Date of previous issue: 12/03/2013
Version: 2
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**:  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
50× Illumina GA Primer Mix  
No known significant effects or critical hazards.

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

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

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

**Over-exposure signs/symptoms**

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

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

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

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

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

**Notes to physician**:  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
50× 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  
50× Illumina GA Primer Mix  
No specific treatment.

**Protection of first-aiders**:  
2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
50× Illumina GA Primer 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

<table>
<thead>
<tr>
<th>Extinguishing media</th>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
</tr>
<tr>
<td></td>
<td>50× Illumina GA Primer Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
</tbody>
</table>

- **Use an extinguishing agent suitable for the surrounding fire.**
- **None known.**

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>Hazardous thermal decomposition products</th>
</tr>
</thead>
<tbody>
<tr>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
</tr>
<tr>
<td>50× Illumina GA Primer Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
</tbody>
</table>

- **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
  - sulfur oxides
  - halogenated compounds
  - metal oxide/oxides
- **No specific data.**

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
<th>Special protective equipment for fire-fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
</tr>
<tr>
<td>50× Illumina GA Primer Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
</tbody>
</table>

- **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.**
- **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**

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td>50× Illumina GA Primer Mix</td>
<td>50× Illumina GA Primer Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
</tbody>
</table>

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

Environmental precautions:
- 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:
- 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.

Precautions for safe handling

Protective measures:
- Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene:
- 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

Precautions for safe handling

Protective measures:
- Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene:
- 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

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.

50× 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.

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>2× Brilliant III Ultra-Fast SYBR Green 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

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

Section 9. Physical and chemical properties

### Appearance
- **Physical state**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Liquid.
- **Colour**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **Odour**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **Odour threshold**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **pH**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **Melting point**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **Boiling point**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - 0°C (32°F)
- **Flash point**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **Evaporation rate**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **Flammability (solid, gas)**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not applicable.
- **Lower and upper explosive (flammable) limits**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **Vapour pressure**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× Illumina GA Primer Mix - Not available.
- **Vapour density**: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix 50× 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>50× Illumina GA Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Solubility</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
</tbody>
</table>

Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</th>
<th>50× Illumina GA Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>50× Illumina GA Primer Mix</td>
</tr>
</tbody>
</table>

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Section 10. Stability and reactivity

Hazardous decomposition products
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50× Illumina GA Primer 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>2× 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>
</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>2× 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>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td></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

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

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

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

No known significant effects or critical hazards.
## Section 11. Toxicological information

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

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

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

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

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

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

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

### Mutagenicity
- **2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix**
  - No known significant effects or critical hazards.
- **50× Illumina GA Primer Mix**
  - No known significant effects or critical hazards.
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Teratogenicity</th>
<th>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developmental effects</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>50× Illumina GA Primer Mix</td>
<td></td>
</tr>
<tr>
<td>Fertility effects</td>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>50× Illumina GA Primer Mix</td>
<td></td>
</tr>
</tbody>
</table>

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

Persistence and degradability

Not available.

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>-</td>
<td>low</td>
</tr>
<tr>
<td>Glycerol</td>
<td></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...
Section 13. Disposal considerations

- contact with soil, waterways, drains and sewers.

Section 14. Transport information

Section 15. Regulatory information

- Standard Uniform Schedule of Medicine and Poisons
- Model Work Health and Safety Regulations - Scheduled Substances
- Australia inventory (AICS)
- International regulations
  - Chemical Weapon Convention List Schedules I, II & III Chemicals
  - Montreal Protocol (Annexes A, B, C, E)
  - Stockholm Convention on Persistent Organic Pollutants
  - Rotterdam Convention on Prior Inform Consent (PIC)
  - UNECE Aarhus Protocol on POPs and Heavy Metals

International lists

National inventory

- 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): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
- 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.
- Turkey: Not determined.
- United States: All components are listed or exempted.

- ADG / IMDG / IATA: Not regulated as Dangerous Goods according to the ADG Code.
- 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 16. Any other relevant information

History

Date of issue/Date of revision : 03/08/2016
Date of previous issue : 12/03/2013.
Version : 2

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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References

Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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