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

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

1.1 Product identifier

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

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical reagent.</td>
<td></td>
</tr>
<tr>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>40 ml (2 ml / Tube)</td>
</tr>
<tr>
<td>50× Illumina GA Primer Mix</td>
<td>10 x 0.2 ml</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000
e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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

Date of issue/Date of revision : 03/08/2016

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SECTION 2: Hazards identification

| **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.  

**Hazardous ingredients**

No hazardous ingredient.

**Supplemental label elements**

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

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

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

**Special packaging requirements**

**Tactile warning of danger**

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

**2.3 Other hazards**

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

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix  
  None known.  
- 50× Illumina GA Primer Mix  
  None known.  

Date of issue/Date of revision: 03/08/2016
SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td>See Section 16 for the full text of the H statements declared above.</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.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard  
[2] Substance with a workplace exposure limit  
[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix

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

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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SECTION 4: First aid measures

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.

4.2 Most important symptoms and effects, both 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.

4.3 Indication of any immediate medical attention and special treatment needed

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.

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SECTION 4: First aid measures

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

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

None known.

5.2 Special hazards arising from the substance or mixture

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

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

No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50× 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.

Special protective equipment for fire-fighters
- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
- 50× 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

- 2× Brilliant III Ultra-Fast 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.

- 50× 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:

- 2× Brilliant III Ultra-Fast 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".

- 50× 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".

6.2 Environmental precautions:

- 2× Brilliant III Ultra-Fast 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).

- 50× 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:

- 2× 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.

- 50× 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.

6.4 Reference to other sections:

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures:

- 2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix: Put on appropriate personal protective equipment (see Section 8).

- 50× 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.

- 50× Illumina GA Primer Mix: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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SECTION 7: Handling and storage

7.2 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.

7.3 Specific end use(s)

 Recommendations:

2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
Industrial applications, Professional applications.

50× Illumina GA Primer Mix
Industrial applications, Professional applications.

Industrial sector specific solutions:

2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix
Not applicable.

50× Illumina GA Primer Mix
Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
</tbody>
</table>

Recommended monitoring procedures:
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs
No DNELs/DMELs available.

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SECTION 8: Exposure controls/personal protection

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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

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

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

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

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance


50× Illumina GA Primer Mix Liquid.

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

50× Illumina GA Primer Mix Not available.

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

50× Illumina GA Primer Mix Not available.

Date of issue/Date of revision: 03/08/2016
### 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><strong>Odour threshold</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td>Not available.</td>
<td>0°C</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>Not available.</td>
<td>100°C</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Easily soluble in the following materials: cold water and hot water.</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>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</th>
<th>50× Illumina GA Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

<table>
<thead>
<tr>
<th>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</th>
<th>50× Illumina GA Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</th>
<th>50× Illumina GA Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
</tbody>
</table>

10.4 Conditions to avoid

<table>
<thead>
<tr>
<th>2× Brilliant III Ultra-Fast SYBR Green QPCR Master Mix</th>
<th>50× Illumina GA Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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SECTION 10: Stability and reactivity

10.5 Incompatible materials

May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Conclusion/Summary: Not available.

Sensitiser

Conclusion/Summary: Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation

No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

Skin contact

No known significant effects or critical hazards.

Eye contact

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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## SECTION 11: Toxicological information

### Inhalation
- **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.

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

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

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

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

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

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

**Developmental effects**
- **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

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

SECTION 12: Ecological information

12.1 Toxicity
Conclusion/Summary : Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Soil/water partition coefficient (K<sub>OC</sub>) : Not available.
Mobility : Not available.

12.5 Results of PBT and vPvB assessment
PBT : Not applicable.
vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging
Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory information
ADR/RID / IMDG / IATA : Not regulated.

14.6 Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 14: Transport information

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation
Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations
Europe inventory: All components are listed or exempted.
Industrial emissions (integrated pollution prevention and control) - Air
Seveso Directive
This product is not controlled under the Seveso Directive.

National regulations
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 Inform Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

International lists
National inventory
Australia: Not determined.
Canada: All components are listed or exempted.
China: 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.

Date of issue/Date of revision: 03/08/2016
SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Country</th>
<th>Information</th>
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</thead>
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<tr>
<td>Taiwan</td>
<td>All components are listed or exempted.</td>
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<td>Turkey</td>
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<tr>
<td>United States</td>
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</table>

15.2 Chemical safety assessment: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

Date of issue/ Date of revision: 03/08/2016

Date of previous issue: No previous validation.

Version: 1

Notice to reader

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