SAFETY DATA SHEET

Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Sample Size, Part Number 930882

Section 1. Identification

Product identifier : Brilliant III Ultra-Fast SYBR Green QPCR Master Mix Sample Size, Part Number 930882
Part no. (chemical kit) : 930882
Part no. : Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
Part no. (chemical kit) : 930882-51
Reference Dye
(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.

Reference Dye
Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.4%

GHS label elements

Signal word : Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
No signal word.

Hazard statements : Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
No known significant effects or critical hazards.

Precautionary statements

Prevention : Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
Not applicable.

Response : Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
Not applicable.

Storage : Brilliant III SYBR® Green QPCR Master Mix Sample Size
Reference Dye
Not applicable.
Section 2. Hazard(s) identification

Disposal:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size: Not applicable.
- Reference Dye: Not applicable.

Supplemental label elements:
- Additional warning phrases:
  - Brilliant III SYBR® Green QPCR Master Mix Sample Size: Not applicable.
  - Reference Dye: Not applicable.

Other hazards which do not result in classification:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size: None known.
- Reference Dye: None known.

Section 3. Composition and ingredient information

Substance/mixture:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size: 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>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td></td>
<td></td>
</tr>
<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

Eye contact:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size
- Reference Dye

Inhalation:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size
- Reference Dye

Skin contact:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size
- Reference Dye

Description of necessary first aid measures:
- Eye contact: 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: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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Section 4. First aid measures

Ingestion:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
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

Eye contact:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
No known significant effects or critical hazards.

Reference Dye
No known significant effects or critical hazards.

Inhalation:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
No known significant effects or critical hazards.

Reference Dye
No known significant effects or critical hazards.

Skin contact:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
No known significant effects or critical hazards.

Reference Dye
No known significant effects or critical hazards.

Ingestion:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
No known significant effects or critical hazards.

Reference Dye
No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
No specific data.

Reference Dye
No specific data.

Inhalation:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
No specific data.

Reference Dye
No specific data.

Skin contact:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
No specific data.

Reference Dye
No specific data.

Ingestion:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
No specific data.

Reference Dye
No specific data.

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

Notes to physician:
Brilliant III SYBR® Green QPCR Master Mix Sample Size
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Reference Dye
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Section 4. First aid measures

Specific treatments: Brilliant III SYBR® Green QPCR Master Mix Sample Size, Reference Dye
- No specific treatment.

Protection of first-aiders: Brilliant III SYBR® Green QPCR Master Mix Sample Size, Reference Dye
- No action shall be taken involving any personal risk or without suitable training.

Reference Dye
- 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:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size, Reference Dye
  - Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size, Reference Dye
  - None known.

Specific hazards arising from the chemical:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size, Reference Dye
  - In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size, Reference Dye
  - Decomposition products may include the following materials:
    - carbon dioxide
    - carbon monoxide
    - sulfur oxides
    - halogenated compounds
    - metal oxide/oxides
  - Decomposition products may include the following materials:
    - carbon dioxide
    - carbon monoxide
    - nitrogen oxides
    - halogenated compounds
    - metal oxide/oxides

Special protective actions for fire-fighters:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size, Reference Dye
  - 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.

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Section 5. Firefighting measures

Special protective equipment for fire-fighters: Brilliant III SYBR® Green QPCR Master Mix Sample Size
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Reference Dye
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: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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.

For emergency responders: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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". Reference Dye
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: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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). Reference Dye
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: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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. Reference Dye
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.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures: Brilliant III SYBR® Green QPCR Master Mix Sample Size
Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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: Brilliant III SYBR® Green QPCR Master Mix Sample Size
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>Brilliant III SYBR® Green QPCR Master Mix Sample Size Glycerol</td>
<td>Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours. DFG MAC-values list (Germany, 7/2019). Absorbed through skin. PEAK: 320 mg/m³, 4 times per shift, 15 minutes. TWA: 160 mg/m³ 8 hours. TWA: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours.</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td></td>
</tr>
</tbody>
</table>

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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: Brilliant III SYBR® Green QPCR Master Mix Sample Size Liquid.
Reference Dye Liquid.

Colour: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
Reference Dye Not available.

Odour: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
Reference Dye Not available.

Odour threshold: Brilliant III SYBR® Green QPCR Master Mix Sample Size Not available.
Reference Dye Not available.

pH: Brilliant III SYBR® Green QPCR Master Mix Sample Size 7.8
Reference Dye 8
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td></td>
</tr>
<tr>
<td>Solubility 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>
</tbody>
</table>
## Section 10. Stability and reactivity

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

## 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>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
</tr>
<tr>
<td>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>Dimethyl sulfoxide</td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>40000 mg/kg</td>
</tr>
<tr>
<td>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>Dimethyl sulfoxide</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>14500 mg/kg</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>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>Glycerol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
<tr>
<td>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>Glycerol</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
<tr>
<td>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>Dimethyl sulfoxide</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
<tr>
<td>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>Dimethyl sulfoxide</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>100 mg</td>
<td>-</td>
</tr>
<tr>
<td>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>Dimethyl sulfoxide</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>24 hours 500</td>
<td>-</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

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

<table>
<thead>
<tr>
<th>Route</th>
<th>Brilliant III SYBR® Green QPCR Master Mix Sample Size</th>
<th>Reference Dye</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
</table>

Potential acute health effects

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

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

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

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

Symptoms related to the physical, chemical and toxicological characteristics

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

Inhalation: Brilliant III SYBR® Green QPCR Master Mix Sample Size Reference Dye No specific data.
Section 11. Toxicological information

Skin contact:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size: No specific data.
- Reference Dye: No specific data.

Ingestion:
- Brilliant III SYBR® Green QPCR Master Mix Sample Size: 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

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

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

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

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

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

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

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>12600</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>14500</td>
<td>40000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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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>Brilliant III SYBR® Green QPCR Master Mix Sample Size</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>
<tr>
<td></td>
<td>Chronic NOEC 100 ul/L Fresh water</td>
<td>Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)</td>
<td>21 days</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>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93% - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td>OECD 301D Ready Biodegradability - Closed Bottle Test</td>
<td>31% - Not readily - 28 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
<td></td>
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</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>Brilliant III SYBR® Green QPCR Master Mix Sample Size</td>
<td>-</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>-1.35</td>
<td>3.16</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

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

**Other adverse effects** : No known significant effects or critical hazards.
Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code.

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines 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

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.
New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.

Date of issue/Date of revision : 11/08/2020
Date of previous issue : 30/04/2018
Version : 6
Section 15. Regulatory information

<table>
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<th>Information</th>
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<tbody>
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<td>Turkey</td>
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<tr>
<td>United States</td>
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<td>Viet Nam</td>
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Section 16. Any other relevant information

History

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<td>30/04/2018</td>
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Key to abbreviations

- ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- 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
- N/A = Not available
- 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.

_OPCODE_ Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.