SAFETY DATA SHEET
Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, Part Number 600882

Section 1. Identification

1.1 Product identifier
Product name: Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, Part Number 600882
Part no. (chemical kit): 600882
Part no.: Reference Dye 600530-53
2X Brilliant III SYBR® Green QPCR Master Mix 600882-51
Validation date: 10/30/2019

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses: Analytical reagent.
Reference Dye 0.1 ml (100 µl 1 mM)
2X Brilliant III SYBR® Green QPCR Master Mix 2 x 2 ml

1.3 Details of the supplier of the safety data sheet
Supplier/Manufacturer: Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number
In case of emergency: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture
OSHA/HCS status: Reference Dye
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture
2X Brilliant III SYBR® Green QPCR Master Mix
H320 EYE IRRITATION - Category 2B

Ingredients of unknown toxicity: Reference Dye
Percentage of the mixture consisting of ingredient (s) of unknown acute dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 10 - 30%

2X Brilliant III SYBR® Green QPCR Master Mix
Percentage of the mixture consisting of ingredient (s) of unknown acute dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 10 - 30%

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Section 2. Hazards identification

2.2 GHS label elements

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Reference Dye</th>
<th>2X Brilliant III SYBR® Green QPCR Master Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard statements</td>
<td>Reference Dye</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>H320 - Causes eye irritation.</td>
</tr>
</tbody>
</table>

Precautionary statements

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Reference Dye</th>
<th>2X Brilliant III SYBR® Green QPCR Master Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response</td>
<td>Reference Dye</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>P264 - Wash hands thoroughly after handling.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
<th>Reference Dye</th>
<th>2X Brilliant III SYBR® Green QPCR Master Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal</td>
<td>Reference Dye</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Supplemental label elements

<table>
<thead>
<tr>
<th>Supplemental label elements</th>
<th>Reference Dye</th>
<th>2X Brilliant III SYBR® Green QPCR Master Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None known.</td>
<td>None known.</td>
</tr>
</tbody>
</table>

2.3 Other hazards

<table>
<thead>
<tr>
<th>Hazards not otherwise classified</th>
<th>Reference Dye</th>
<th>2X Brilliant III SYBR® Green QPCR Master Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None known.</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Reference Dye</th>
<th>2X Brilliant III SYBR® Green QPCR Master Mix</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>≤5</td>
<td>7447-40-7</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>≤3</td>
<td>1185-53-1</td>
</tr>
</tbody>
</table>

| 2X Brilliant III SYBR® Green QPCR Master Mix | Glycerol | ≥10 - ≤25 | 56-81-5 |
|                                             | Dimethyl sulfoxide | ≤10 | 67-68-5 |
|                                             | Potassium chloride | ≤3 | 7447-40-7 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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Section 3. Composition/information on ingredients

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

4.1 Description of necessary first aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Reference Dye</th>
<th>2X Brilliant III SYBR® Green QPCR Master Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Reference Dye</td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Reference Dye</td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Reference Dye</td>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

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Section 4. First aid measures

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix</th>
<th>No known significant effects or critical hazards. Causes eye irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix</th>
<th>No specific data. Adverse symptoms may include the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>irrigation watering redness</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

Notes to physician

| Reference Dye 2X Brilliant III SYBR® Green QPCR Master Mix | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |

Specific treatments


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### Section 4. First aid measures

<table>
<thead>
<tr>
<th>Protection of first-aiders</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</td>
</tr>
</tbody>
</table>

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### 5.1 Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>None known.</td>
</tr>
</tbody>
</table>

#### 5.2 Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds, metal oxide/oxides.</td>
</tr>
</tbody>
</table>

#### 5.3 Advice for firefighters

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable protective actions for fire-fighters</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Hazardous thermal decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, halogenated compounds, metal oxide/oxides.
# Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>Reference Dye</th>
<th>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Reference Dye</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>

# Section 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

| 2X Brilliant III SYBR® Green QPCR Master Mix | 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 spilled material. Put on appropriate personal protective equipment. |

### For emergency responders

| 2X Brilliant III SYBR® Green QPCR Master Mix | Reference Dye | If specialized 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

| 2X Brilliant III SYBR® Green QPCR Master Mix | Reference Dye | Avoid dispersal of spilled 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 materials for containment and cleaning up

### Methods for cleaning up

| 2X Brilliant III SYBR® Green QPCR Master Mix | 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 6. Accidental release measures

inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

Reference Dye

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

2X Brilliant III SYBR® Green QPCR Master Mix

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Reference Dye

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.

2X Brilliant III 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.

7.2 Conditions for safe storage, including any incompatibilities

Reference Dye

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

2X Brilliant III 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)
Section 7. Handling and storage

**Recommendations**

<table>
<thead>
<tr>
<th>Industrial sector specific solutions</th>
<th>Reference Dye</th>
<th>2X Brilliant III SYBR® Green QPCR Master Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Reference Dye**

Potassium chloride

2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

**2X Brilliant III SYBR® Green QPCR Master Mix**

Glycerol

**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.

**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: chemical splash goggles.

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**Ingredient name**

<table>
<thead>
<tr>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>2X Brilliant III SYBR® Green QPCR Master Mix</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th><strong>Eye/face protection</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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: chemical splash goggles.</td>
</tr>
</tbody>
</table>

**OSHA PEL (United States, 3/1989).**

- TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
- TWA: 10 mg/m³ 8 hours. Form: Total dust

**OSHA PEL (United States, 5/2018).**

- TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
- TWA: 15 mg/m³ 8 hours. Form: Total dust

**AIHA WEEL (United States, 7/2018).**

- TWA: 250 ppm 8 hours.
- None.

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>None.</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>None.</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>None.</td>
</tr>
<tr>
<td>Glycerol</td>
<td>OSHA PEL (United States, 5/2018).</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>AIHA WEEL (United States, 7/2018).</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>None.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

**Appropriate engineering 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.

**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: chemical splash goggles.

8.1 Control parameters

**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: chemical splash goggles.

**Environmental exposure controls**

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

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Section 8. Exposure controls/personal 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Liquid.

Color: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not available.

Odor: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not available.

Odor threshold: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not available.

pH: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: 8

Melting point: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not available.

Boiling point: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not available.

Flash point: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not available.

Evaporation rate: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not available.

Flammability (solid, gas): Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not applicable.

Lower and upper explosive (flammable) limits: Reference Dye
2X Brilliant III SYBR® Green QPCR Master Mix: Not available.
Section 9. Physical and chemical properties

Vapor pressure

- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Not available.

Vapor density

- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Not available.

Relative density

- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Not available.

Solubility

- Reference Dye
- Easily soluble in the following materials: cold water and hot water.
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water

- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Not available.

Auto-ignition temperature

- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Not available.

Decomposition temperature

- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Not available.

Viscosity

- Reference Dye
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Not available.

Section 10. Stability and reactivity

10.1 Reactivity

- Reference Dye
- No specific test data related to reactivity available for this product or its ingredients.
- 2X Brilliant III SYBR® Green QPCR Master Mix
  No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

- Reference Dye
- The product is stable.
- 2X Brilliant III SYBR® Green QPCR Master Mix
  The product is stable.

10.3 Possibility of hazardous reactions

- Reference Dye
- Under normal conditions of storage and use, hazardous reactions will not occur.
- 2X Brilliant III SYBR® Green QPCR Master Mix
  Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

- Reference Dye
- No specific data.
- 2X Brilliant III SYBR® Green QPCR Master Mix
  No specific data.

10.5 Incompatible materials

- Reference Dye
- May react or be incompatible with oxidizing materials.
- 2X Brilliant III SYBR® Green QPCR Master Mix
  May react or be incompatible with oxidizing materials.
Section 10. Stability and reactivity

10.6 Hazardous decomposition products

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

Reference Dye

2X Brilliant III SYBR® Green QPCR Master Mix

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

<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>Reference Dye</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>40000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>14500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2600 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>Reference Dye</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</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>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>100 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></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Not available.
Section 11. Toxicological information

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>2-Amino-2-((hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on the likely routes of exposure

- **Reference Dye**
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

- **Eye contact**
  - Reference Dye
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - No known significant effects or critical hazards.
  - Causes eye irritation.

- **Inhalation**
  - Reference Dye
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - No known significant effects or critical hazards.

- **Skin contact**
  - Reference Dye
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - No known significant effects or critical hazards.

- **Ingestion**
  - Reference Dye
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- **Eye contact**
  - Reference Dye
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - No specific data.
  - Adverse symptoms may include the following:
    - irritation
    - watering
    - redness

- **Inhalation**
  - Reference Dye
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - No specific data.

- **Skin contact**
  - Reference Dye
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - No specific data.

- **Ingestion**
  - Reference Dye
  - 2X Brilliant III SYBR® Green QPCR Master Mix
  - No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available.
Section 11. Toxicological information

Potential delayed effects : Not available.

Long term exposure
Potential immediate effects : Not available.
Potential delayed effects : Not available.
Potential chronic health effects

General : Reference Dye
          2X Brilliant III SYBR® Green QPCR Master Mix
          No known significant effects or critical hazards.
          2X Brilliant III SYBR® Green QPCR Master Mix
          No known significant effects or critical hazards.

Carcinogenicity : Reference Dye
                 2X Brilliant III SYBR® Green QPCR Master Mix
                 No known significant effects or critical hazards.
                 2X Brilliant III SYBR® Green QPCR Master Mix
                 No known significant effects or critical hazards.

Mutagenicity : Reference Dye
               2X Brilliant III SYBR® Green QPCR Master Mix
               No known significant effects or critical hazards.
               2X Brilliant III SYBR® Green QPCR Master Mix
               No known significant effects or critical hazards.

Teratogenicity : Reference Dye
                2X Brilliant III SYBR® Green QPCR Master Mix
                No known significant effects or critical hazards.
                2X Brilliant III SYBR® Green QPCR Master Mix
                No known significant effects or critical hazards.

Developmental effects : Reference Dye
                        2X Brilliant III SYBR® Green QPCR Master Mix
                        No known significant effects or critical hazards.
                        2X Brilliant III SYBR® Green QPCR Master Mix
                        No known significant effects or critical hazards.

Fertility effects : Reference Dye
                   2X Brilliant III SYBR® Green QPCR Master Mix
                   No known significant effects or critical hazards.
                   2X Brilliant III SYBR® Green QPCR Master Mix
                   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 (vapors) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Reference Dye</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Reference Dye</td>
<td>2600</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
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<td>Potassium chloride</td>
<td>2600</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Potassium chloride</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
<tr>
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<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Glycerol</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</table>

Section 12. Ecological information

12.1 Toxicity
### Section 12. Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reference Dye</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>Acute EC50 1337000 µg/l Fresh water 96 hours</td>
<td>Algae - Navicula seminulum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 9.24 g/L Fresh water 72 hours</td>
<td>Algae - Desmodesmus subspicatus</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 141.46 mg/l Fresh water 48 hours</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 12.92 mg/l Fresh water 48 hours</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 880 mg/l Fresh water 96 hours</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td><strong>2X Brilliant III SYBR® Green QPCR Master Mix</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>Acute LC50 54000 mg/l Fresh water 96 hours</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 25000 ppm Fresh water 48 hours</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 34000000 µg/l Fresh water 96 hours</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 ul/L Marine water 72 hours</td>
<td>Algae - Ulva lactuca</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 ul/L Fresh water 21 days</td>
<td>Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)</td>
<td>21 days</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>Acute EC50 1337000 µg/l Fresh water 96 hours</td>
<td>Algae - Navicula seminulum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 9.24 g/L Fresh water 72 hours</td>
<td>Algae - Desmodesmus subspicatus</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 141.46 mg/l Fresh water 48 hours</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 12.92 mg/l Fresh water 48 hours</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 880 mg/l Fresh water 96 hours</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
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<tr>
<td><strong>2X Brilliant III SYBR® Green QPCR Master Mix</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>OECD 301D Ready Biodegradability - Closed Bottle Test</td>
<td>31 % - Not readily - 28 days</td>
<td>-</td>
<td>-</td>
</tr>
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</table>

#### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reference Dye</strong></td>
<td></td>
<td></td>
<td>Readily</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td><strong>2X Brilliant III SYBR® Green QPCR Master Mix</strong></td>
<td></td>
<td></td>
<td>Not readily</td>
</tr>
<tr>
<td>Dimethyl sulfoxide</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

**Date of issue:** 10/30/2019
Section 12. Ecological information

<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>Reference Dye</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>-0.46</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>2X Brilliant III SYBR®</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Green QPCR Master Mix</td>
<td></td>
<td></td>
<td></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>
<tr>
<td>Potassium chloride</td>
<td>-0.46</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods: The generation of waste should be avoided or minimized 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA: Not regulated.

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.

Date of issue: 10/30/2019
Section 15. Regulatory information

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

U.S. Federal regulations:
- **TSCA 8(a) PAIR**: Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-(omega.-hydroxy-)
- **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
- **Clean Water Act (CWA) 311**: Edetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):
- Not listed

Clean Air Act Section 602 Class I Substances:
- Not listed

Clean Air Act Section 602 Class II Substances:
- Not listed

DEA List I Chemicals (Precursor Chemicals):
- Not listed

DEA List II Chemicals (Essential Chemicals):
- Not listed

**SARA 302/304**

Composition/information on ingredients
- No products were found.

SARA 304 RQ:
- Not applicable.

SARA 311/312
- **Classification**: Reference Dye
- **Not applicable.**
  - **EYE IRRITATION** - Category 2B

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Reference Dye                             | ≤5, ≤3    | EYE IRRITATION - Category 2A
| Potassium chloride                        | ≤3        | SKIN IRRITATION - Category 2
| 2-Amino-2-(hydroxymethyl) propan-1,3-diol hydrochloride |           | EYE IRRITATION - Category 2A
| **2X Brilliant III SYBR® Green QPCR Master Mix** |           | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Glycerol                                  | ≥10 - ≤25 | EYE IRRITATION - Category 2A
| Dimethyl sulfoxide                        | ≤10       | FLAMMABLE LIQUIDS - Category 4
| Potassium chloride                        | ≤3        | EYE IRRITATION - Category 2A

State regulations:

**Massachusetts**: The following components are listed: GLYCERINE MIST

**New York**: None of the components are listed.

**New Jersey**: The following components are listed: GLYCERIN; 1,2,3-PROPEANETRIOL; DIMETHYL SULFOXIDE; METHANE, SULFINYLBIS-

**Pennsylvania**: The following components are listed: 1,2,3-PROPEANETRIOL

**California Prop. 65**: This product does not require a Safe Harbor warning under California Prop. 65.

**Date of issue**: 10/30/2019
Section 15. Regulatory information

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.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

Section 16. Other information

History

Date of issue : 10/30/2019
Date of previous issue : 05/23/2018
Version : 6
Key to abbreviations

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
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
UN = United Nations

Procedure used to derive the classification
Section 16. Other information

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant III SYBR® Green QPCR Master Mix</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

EYE IRRITATION - Category 2B

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.