SAFETY DATA SHEET
Brilliant II QRT-PCR Low ROX Master Mix - 1-Step, Part Number 600837

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

1.1 Product identifier
Product name: Brilliant II QRT-PCR Low ROX Master Mix - 1-Step, Part Number 600837
Part no. (chemical kit): 600837
Part no.:
- 2X Brilliant II QRT-PCR Low ROX Master Mix 600837-51
- RT/RNase Block Enzyme Mixture 600809-52

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses: Analytical reagent.
- 2X Brilliant II QRT-PCR Low ROX Master Mix 2 × 2.5 ml
- RT/RNase Block Enzyme Mixture 0.4 ml

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:
- 2X Brilliant II QRT-PCR Low ROX Master Mix Mixture
- RT/RNase Block Enzyme Mixture Mixture

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

Ingredients of unknown toxicity:
- 2X Brilliant II QRT-PCR Low ROX Master Mix Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
- RT/RNase Block Enzyme Mixture Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Date of issue/Date of revision: 25/04/2019
SECTION 2: Hazards identification

Signal word

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

No signal word.

Hazard statements

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

No known significant effects or critical hazards.

Precautionary statements

Prevention

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

Not applicable.

Response

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

Not applicable.

Storage

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

Not applicable.

Disposal

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

Not applicable.

Supplemental label elements

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

Not applicable.

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

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

Not applicable.

Special packaging requirements

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block
- Enzyme Mixture

None known.
Brilliant II QRT-PCR Low ROX Master Mix - 1-Step, Part Number 600837

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

- 2X Brilliant II QRT-PCR Low ROX 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.
- RT/RNase Block Enzyme Mixture: 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

- 2X Brilliant II QRT-PCR Low ROX Master Mix: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- RT/RNase Block Enzyme Mixture: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

- 2X Brilliant II QRT-PCR Low ROX Master Mix: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- RT/RNase Block Enzyme Mixture: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

- 2X Brilliant II QRT-PCR Low ROX Master 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.
- RT/RNase Block Enzyme Mixture: 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.
SECTION 4: First aid measures

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.

Protection of first-aiders:
- 2X Brilliant II QRT-PCR Low ROX Master Mix
- RT/RNase Block Enzyme Mixture

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**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Inhalation</th>
<th>Skin contact</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
</tr>
<tr>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</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>Inhalation</th>
<th>Skin contact</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
</tr>
<tr>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician**

- 2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**

- 2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture

No specific treatment.

Date of issue/Date of revision: 25/04/2019
SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

<table>
<thead>
<tr>
<th>Media</th>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known.</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known.</td>
</tr>
</tbody>
</table>

5.2 Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Substance or mixture</th>
<th>Special hazards arising from the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

5.3 Advice for firefighters

<table>
<thead>
<tr>
<th>Precautions</th>
<th>Suitability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special precautions for fire-fighters</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</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>Equipment</th>
<th>Suitability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</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. 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.</td>
</tr>
</tbody>
</table>

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Personal precautions, protective equipment and emergency procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>For non-emergency personnel</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>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.</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 25/04/2019
## SECTION 6: Accidental release measures

### For emergency responders

<table>
<thead>
<tr>
<th>Substance</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
</tbody>
</table>

### 6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Substance</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td>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).</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>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).</td>
</tr>
</tbody>
</table>

### 6.3 Methods and material for containment and cleaning up

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td>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.</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 6.4 Reference to other sections

<table>
<thead>
<tr>
<th>Reference</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>See Section 1 for emergency contact information.</td>
</tr>
<tr>
<td>8</td>
<td>See Section 8 for information on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>13</td>
<td>See Section 13 for additional waste treatment information.</td>
</tr>
</tbody>
</table>

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Advice on general occupational hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td>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.</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 7.2 Conditions for safe storage, including any incompatibilities

**Date of issue** 25/04/2019

**Revision** 6/16
SECTION 7: Handling and storage

**Storage**

- **2X Brilliant II QRT-PCR Low ROX Master Mix**
  - Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

- **RT/RNase Block Enzyme Mixture**
  - 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.

### 7.3 Specific end use(s)

**Recommendations**

- **2X Brilliant II QRT-PCR Low ROX Master Mix**
  - Industrial applications, Professional applications.

- **RT/RNase Block Enzyme Mixture**
  - Industrial applications, Professional applications.

**Industrial sector specific solutions**

- **2X Brilliant II QRT-PCR Low ROX Master Mix**
  - Not applicable.

- **RT/RNase Block Enzyme Mixture**
  - 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><strong>2X Brilliant II QRT-PCR Low ROX Master Mix</strong></td>
<td><strong>EH40/2005 WELs (United Kingdom (UK), 12/2011).</strong></td>
</tr>
<tr>
<td>Glycerol</td>
<td>TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
<tr>
<td><strong>RT/RNase Block Enzyme Mixture</strong></td>
<td></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**

**Date of issue/Date of revision**

- 25/04/2019
SECTION 8: Exposure controls/personal protection

No DNELs/DMELs available.

**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**

**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.

**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.**

**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**
- 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.

**Eye/face protection**
- 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.

**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**

**Physical state**
- 2X Brilliant II QRT-PCR Low ROX Master Mix: Liquid.
- RT/RNase Block Enzyme Mixture: Liquid.

**Colour**
- 2X Brilliant II QRT-PCR Low ROX Master Mix: Not available.
- RT/RNase Block Enzyme Mixture: Not available.

**Odour**
- 2X Brilliant II QRT-PCR Low ROX Master Mix: Not available.
- RT/RNase Block Enzyme Mixture: Not available.
<table>
<thead>
<tr>
<th>Property</th>
<th>2X Brilliant II QRT-PCR Low ROX Master Mix</th>
<th>Not available.</th>
<th>2X Brilliant II QRT-PCR Low ROX Master Mix</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour threshold</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Not available.</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td></td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td></td>
<td>Not available.</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>Not available.</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>Not applicable.</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 25/04/2019
SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>2X Brilliant II QRT-PCR Low ROX Master Mix</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability
The product is stable.

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

10.4 Conditions to avoid
No specific data.

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**
- N/A

**Irritation/Corrosion**
- Conclusion/Summary: Not available.

**Sensitiser**
- Conclusion/Summary: 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**
- Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
</tr>
<tr>
<td>Ingestion</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
</tr>
<tr>
<td>Skin contact</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
</tr>
<tr>
<td>Eye contact</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix RT/RNase Block Enzyme Mixture</td>
</tr>
</tbody>
</table>

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## SECTION 11: Toxicological information

### Potential chronic health effects

<table>
<thead>
<tr>
<th>Category</th>
<th>Substance</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2X Brilliant II QRT-PCR Low ROX Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td></td>
</tr>
</tbody>
</table>

### Skin contact

- No known significant effects or critical hazards.
- No specific data.

### Ingestion

- No specific data.
- No known significant effects or critical hazards.

### Eye contact

- No specific data.
- No known significant effects or critical hazards.

### Carcinogenicity

- No known significant effects or critical hazards.
- No specific data.

### Mutagenicity

- No known significant effects or critical hazards.
- No specific data.

### Teratogenicity

- No known significant effects or critical hazards.
- No specific data.

### Developmental effects

- No known significant effects or critical hazards.
- No specific data.

### Fertility effects

- No known significant effects or critical hazards.
- No specific data.
**SECTION 12: Ecological information**

12.1 Toxicity

Conclusions/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\textsubscript{OC}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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 spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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SECTION 14: Transport information

14.4 Packing group
- - -
14.5 Environmental hazards
No. No. No.

Additional information

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.

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

: 2X Brilliant II QRT-PCR Low ROX Master Mix

: RT/RNase Block Enzyme Mixture

Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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SECTION 15: Regulatory information

Not listed.

UNEP Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list
Australia : Not determined.
Canada : All components are listed or exempted.
China : All components are listed or exempted.
Europe : Not determined.
Japan : Japan inventory (ENCS): Not determined.
         Japan inventory (ISHL): Not determined.
New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : Not determined.
Taiwan : All components are listed or exempted.
Thailand : Not determined.
Turkey : Not determined.
United States : All components are listed or exempted.
Viet Nam : Not determined.

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]
                               DMEL = Derived Minimal Effect Level
                               DNEL = Derived No Effect Level
                               EUH statement = CLP-specific Hazard statement
                               N/A = Not available
                               PBT = Persistent, Bioaccumulative and Toxic
                               PNEC = Predicted No Effect Concentration
                               RRN = REACH Registration Number
                               vPvB = Very Persistent and Very Bioaccumulative

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

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

Full text of abbreviated H statements
Not applicable.

Full text of classifications [CLP/GHS]
Not applicable.

Date of issue/ Date of revision : 25/04/2019
Date of previous issue : 27/10/2017
Version : 2
Notice to reader
SECTION 16: Other information

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