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

1.1 Product identifier

| Product name | : Brilliant II SYBR Green QRT-PCR High ROX Master Mix - 1-Step, Part Number 600836 |
| Part no. (chemical kit) | : 600836 |
| Part no. | 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix 600836-51 |
| | RT/RNase Block Enzyme Mixture 600825-52 |

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

Material uses : Analytical reagent.

- 2X Brilliant II SYBR® QRT-PCR High 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 SYBR® QRT-PCR High 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 SYBR® QRT-PCR High ROX Master Mix unknown acute inhalation toxicity: 10 - 30%

RT/RNase Block Enzyme unknown acute inhalation toxicity: 30 - 60%

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

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

**Signal word**

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

No signal word.

**Hazard statements**

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

No known significant effects or critical hazards.

**Precautionary statements**

**Prevention**

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

Not applicable.

**Response**

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

Not applicable.

**Storage**

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

Not applicable.

**Disposal**

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

Not applicable.

**Supplemental label elements**

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

Not applicable.

**Special packaging requirements**

**Tactile warning of danger**

: 2X Brilliant II SYBR®
  QRT-PCR High 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 SYBR®
  QRT-PCR High 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.
**SECTION 2: Hazards identification**

<table>
<thead>
<tr>
<th>Other hazards which do not result in classification</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</td>
<td>None known.</td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>None known.</td>
</tr>
</tbody>
</table>

**SECTION 3: Composition/information on ingredients**

<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>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</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**

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.
SECTION 4: First aid measures

**Ingestion**

- **2X Brilliant II SYBR® QRT-PCR High 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.

**Protection of first-aiders**

- **2X Brilliant II SYBR® QRT-PCR High ROX Master Mix**
  - No action shall be taken involving any personal risk or without suitable training.

- **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**

- **Eye contact**
  - **2X Brilliant II SYBR® QRT-PCR High ROX Master Mix**
    - No specific data.

- **Inhalation**
  - **2X Brilliant II SYBR® QRT-PCR High ROX Master Mix**
    - No specific data.

- **Skin contact**
  - **2X Brilliant II SYBR® QRT-PCR High ROX Master Mix**
    - No specific data.

**Over-exposure signs/symptoms**

- **Eye contact**
  - **2X Brilliant II SYBR® QRT-PCR High ROX Master Mix**
    - No specific data.

- **Inhalation**
  - **2X Brilliant II SYBR® QRT-PCR High ROX Master Mix**
    - No specific data.

- **Skin contact**
  - **2X Brilliant II SYBR® QRT-PCR High ROX Master Mix**
    - No specific data.
SECTION 4: First aid measures

Ingestion

Notes to physician

2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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 SYBR® QRT-PCR High ROX Master Mix
No specific treatment.

RT/RNase Block Enzyme Mixture
No specific treatment.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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 SYBR® QRT-PCR High ROX Master Mix
No specific treatment.

RT/RNase Block Enzyme Mixture
No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
Use an extinguishing agent suitable for the surrounding fire.

RT/RNase Block Enzyme Mixture
Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
None known.

RT/RNase Block Enzyme Mixture
None known.

5.2 Special hazards arising from the substance or mixture

Hazard from the substance or mixture

2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
In a fire or if heated, a pressure increase will occur and the container may burst.

RT/RNase Block Enzyme Mixture
In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
Decomposition products may include the following materials:
- Carbon dioxide
- Carbon monoxide
- Sulfur oxides
- RT/RNase Block Enzyme Mixture
Decomposition products may include the following materials:
- Carbon dioxide
- Carbon monoxide

5.3 Advice for firefighters

Special precautions for fire-fighters

2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

RT/RNase Block Enzyme Mixture
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.
SECTION 5: Firefighting measures

Special protective equipment for fire-fighters:
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- RT/RNase Block Enzyme Mixture: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- RT/RNase Block Enzyme Mixture: 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:
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- RT/RNase Block Enzyme Mixture: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions:
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- RT/RNase Block Enzyme Mixture: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- RT/RNase Block Enzyme Mixture: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections:
See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

Date of issue/Date of revision: 25/04/2019
7.1 Precautions for safe handling

**Protective measures:**
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
- RT/RNase Block Enzyme Mixture

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

**Advice on general occupational hygiene:**
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
- RT/RNase Block Enzyme Mixture

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

**Storage:**
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
- 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 SYBR® QRT-PCR High ROX Master Mix
- RT/RNase Block Enzyme Mixture

Industrial applications, Professional applications.

**Industrial sector specific solutions:**
- 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix
- 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>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended monitoring procedures**

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

**DNELs/DMELs**

No DNELs/DMELs available.

**PNECs**

No PNECs available

8.2 Exposure controls

**Appropriate engineering controls**

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

**Individual protection measures**

**Hygiene measures**

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

**Eye/face protection**

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

**Skin protection**

**Hand protection**

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

**Body protection**

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

**Other skin protection**

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

Date of issue/Date of revision : 25/04/2019
SECTION 8: Exposure controls/personal protection

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

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

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

#### 9.2 Other information

No additional information.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

<table>
<thead>
<tr>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>No specific test data related to reactivity available for this product or its ingredients.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
</tbody>
</table>

#### 10.2 Chemical stability

<table>
<thead>
<tr>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

#### 10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>Under normal conditions of storage and use, hazardous reactions will not occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
</tbody>
</table>

#### 10.4 Conditions to avoid

<table>
<thead>
<tr>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

#### 10.5 Incompatible materials

<table>
<thead>
<tr>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>May react or be incompatible with oxidising materials.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
</tbody>
</table>

#### 10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

### 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.
## SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Sensitiser</th>
<th>Conclusion/Summary</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>Conclusion/Summary</td>
<td>Not available.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Conclusion/Summary</td>
<td>Not available.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Conclusion/Summary</td>
<td>Not available.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Conclusion/Summary</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### 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>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
</tbody>
</table>

### Potential acute health effects

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

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

<table>
<thead>
<tr>
<th>Route</th>
<th>Inhalation</th>
<th>Ingestion</th>
<th>Skin contact</th>
<th>Eye contact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</td>
<td>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</td>
<td>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</td>
<td>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</td>
</tr>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>RT/RNase Block Enzyme Mixture</td>
</tr>
<tr>
<td></td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
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</table>

### Date of issue/Date of revision

Date of issue/Date of revision: 12/17 25/04/2019
### SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th><strong>Skin contact</strong></th>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Eye contact</strong></th>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

#### Short term exposure

<table>
<thead>
<tr>
<th><strong>Potential immediate effects</strong></th>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Potential delayed effects</strong></th>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

#### Long term exposure

<table>
<thead>
<tr>
<th><strong>Potential immediate effects</strong></th>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Potential delayed effects</strong></th>
<th>2X Brilliant II SYBR® QRT-PCR High ROX Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RT/RNase Block Enzyme Mixture</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

#### Potential chronic health effects

**General**

| 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix | No known significant effects or critical hazards. |
| RT/RNase Block Enzyme Mixture                    | No known significant effects or critical hazards. |

**Carcinogenicity**

| 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix | No known significant effects or critical hazards. |
| RT/RNase Block Enzyme Mixture                    | No known significant effects or critical hazards. |

**Mutagenicity**

| 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix | No known significant effects or critical hazards. |
| RT/RNase Block Enzyme Mixture                    | No known significant effects or critical hazards. |

**Teratogenicity**

| 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix | No known significant effects or critical hazards. |
| RT/RNase Block Enzyme Mixture                    | No known significant effects or critical hazards. |

**Developmental effects**

| 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix | No known significant effects or critical hazards. |
| RT/RNase Block Enzyme Mixture                    | No known significant effects or critical hazards. |

**Fertility effects**

| 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix | No known significant effects or critical hazards. |
| RT/RNase Block Enzyme Mixture                    | No known significant effects or critical hazards. |

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SECTION 12: Ecological information

12.1 Toxicity
   Conclusion/Summary : Not available.

12.2 Persistence and degradability
   Not available.

12.3 Bioaccumulative potential
   Not available.

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

12.5 Results of PBT and vPvB assessment
   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>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision : 25/04/2019

14/17
SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.4 Packing group</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

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 SYBR® QRT-PCR High ROX Master Mix Not applicable.
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.

**UNECE 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.
- **New Zealand**: All components are listed or exempted.
- **Philippines**: All components are listed or exempted.
- **Republic of Korea**: Not determined.
- **Taiwan**: Not determined.
- **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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