SAFETY DATA SHEET
BRCA MASTR Dx

Section 1. Identification

1.1 Product identifier
Product name: BRCA MASTR Dx
Part no.:
- AR 1: I-0801 / I-0802
- PCR Mix Plex 1: I-0232 / I-0238
- PCR Mix Plex 2: I-0233 / I-0239
- PCR Mix Plex 3: I-0234 / I-0240
- PCR Mix Plex 4: I-0235 / I-0241
- PCR Mix Plex 5: I-0236 / I-0242
- Taq DNA Polymerase: I-0237 / I-0243

Validation date: 6/21/2019

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses:
- For In Vitro Diagnostic Use
  - AR 1: 1 ml / 1.5 ml
  - PCR Mix Plex 1: 0.08 ml / 0.4 ml
  - PCR Mix Plex 2: 0.08 ml / 0.4 ml
  - PCR Mix Plex 3: 0.08 ml / 0.4 ml
  - PCR Mix Plex 4: 0.08 ml / 0.4 ml
  - PCR Mix Plex 5: 0.08 ml / 0.4 ml
  - Taq DNA Polymerase: 0.008 ml / 0.017 ml

1.3 Details of the supplier of the safety data sheet
Supplier/Manufacturer: Agilent Technologies Belgium
De Kleetlaan 5 bus 9
1831 Diegem
Belgium
Tel.: +32(0)2 404 90 00

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: AR 1

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.

PCR Mix Plex 1
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.

PCR Mix Plex 2
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.

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### Section 2. Hazards identification

**Classification of the substance or mixture**

**Taq DNA Polymerase**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>H320</td>
<td>EYE IRRITATION - Category 2B</td>
</tr>
<tr>
<td>H412</td>
<td>AQUATIC HAZARD (LONG-TERM) - Category 3</td>
</tr>
</tbody>
</table>

**Ingredients of unknown toxicity**

<table>
<thead>
<tr>
<th>PCR Mix Plex 1</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 2</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%</td>
</tr>
</tbody>
</table>

**PCR Mix Plex 3**

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.

**PCR Mix Plex 4**

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.

**PCR Mix Plex 5**

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.

**Taq DNA Polymerase**

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

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## Section 2. Hazards identification

<table>
<thead>
<tr>
<th>PCR Mix Plex 1</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 2</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.1%</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.1%</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.1%</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.1%</td>
</tr>
</tbody>
</table>

### 2.2 GHS label elements

**Signal word**

- PCR Mix Plex 1: No signal word.
- PCR Mix Plex 2: No signal word.
- PCR Mix Plex 3: No signal word.
- PCR Mix Plex 4: No signal word.
- PCR Mix Plex 5: No signal word.
- Taq DNA Polymerase: Warning

**Hazard statements**

- PCR Mix Plex 1: No known significant effects or critical hazards.
- PCR Mix Plex 2: No known significant effects or critical hazards.
- PCR Mix Plex 3: No known significant effects or critical hazards.
- PCR Mix Plex 4: No known significant effects or critical hazards.
- PCR Mix Plex 5: No known significant effects or critical hazards.
- Taq DNA Polymerase: H320 - Causes eye irritation. H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention**

- PCR Mix Plex 1: Not applicable.
- PCR Mix Plex 2: Not applicable.
- PCR Mix Plex 3: Not applicable.
- PCR Mix Plex 4: Not applicable.
- PCR Mix Plex 5: Not applicable.

**Response**

- PCR Mix Plex 1: Not applicable.
- PCR Mix Plex 2: Not applicable.
- PCR Mix Plex 3: Not applicable.
- PCR Mix Plex 4: Not applicable.
- PCR Mix Plex 5: Not applicable.
- Taq DNA Polymerase: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.

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Storage:
- AR 1 Not applicable.
- PCR Mix Plex 1 Not applicable.
- PCR Mix Plex 2 Not applicable.
- PCR Mix Plex 3 Not applicable.
- PCR Mix Plex 4 Not applicable.
- PCR Mix Plex 5 Not applicable.
- Taq DNA Polymerase Not applicable.

Disposal:
- AR 1 Not applicable.
- PCR Mix Plex 1 Not applicable.
- PCR Mix Plex 2 Not applicable.
- PCR Mix Plex 3 Not applicable.
- PCR Mix Plex 4 Not applicable.
- PCR Mix Plex 5 Not applicable.
- Taq DNA Polymerase P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements:
- AR 1 None known.
- PCR Mix Plex 1 None known.
- PCR Mix Plex 2 None known.
- PCR Mix Plex 3 None known.
- PCR Mix Plex 4 None known.
- PCR Mix Plex 5 None known.
- Taq DNA Polymerase None known.

2.3 Other hazards
Hazards not otherwise classified:
- AR 1 None known.
- PCR Mix Plex 1 None known.
- PCR Mix Plex 2 None known.
- PCR Mix Plex 3 None known.
- PCR Mix Plex 4 None known.
- PCR Mix Plex 5 None known.
- Taq DNA Polymerase None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>≥25 - ≤50</td>
<td>56-81-5</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl].-omega.-hydroxy-</td>
<td>≤1</td>
<td>9036-19-5</td>
</tr>
</tbody>
</table>

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

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.

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Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact

Immediate 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.

PCR Mix Plex 1

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.

PCR Mix Plex 2

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.

PCR Mix Plex 3

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.

PCR Mix Plex 4

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.

PCR Mix Plex 5

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.

Taq DNA Polymerase

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

PCR Mix Plex 1

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.

PCR Mix Plex 2

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.

PCR Mix Plex 3

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.

PCR Mix Plex 4

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
Section 4. First aid measures

may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

PCR Mix Plex 5
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.

Taq DNA Polymerase
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

PCR Mix Plex 1
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

PCR Mix Plex 2
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

PCR Mix Plex 3
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

PCR Mix Plex 4
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

PCR Mix Plex 5
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Taq DNA Polymerase
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

PCR Mix Plex 1
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

<table>
<thead>
<tr>
<th>Product</th>
<th>First aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 2</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>
<tr>
<td>PCR Mix Plex 3</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>
<tr>
<td>PCR Mix Plex 4</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>
<tr>
<td>PCR Mix Plex 5</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>
<tr>
<td>Taq DNA Polymerase</td>
<td>Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
</tbody>
</table>

### 4.2 Most important symptoms/effects, acute and delayed

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Causes eye irritation.</td>
</tr>
</tbody>
</table>

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Section 4. First aid measures

**Inhalation**

- **AR 1**
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

**Skin contact**

- **AR 1**
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

**Ingestion**

- **AR 1**
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**

- **AR 1**
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

Adverse symptoms may include the following:

- irritation
- watering
- redness

**Inhalation**

- **AR 1**
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No specific data.

**Skin contact**

- **AR 1**
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No specific data.

**Ingestion**

- **AR 1**
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No specific data.

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

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**Section 4. First aid measures**

**Notes to physician**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>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>PCR Mix Plex 3</td>
<td>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>PCR Mix Plex 4</td>
<td>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>PCR Mix Plex 5</td>
<td>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>Taq DNA Polymerase</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

**Specific treatments**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

**Protection of first-aiders**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>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

#### Suitable extinguishing media

<table>
<thead>
<tr>
<th>Substance</th>
<th>Extinguishing media</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td></td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td></td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td></td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td></td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td></td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td></td>
</tr>
</tbody>
</table>

#### Unsuitable extinguishing media

<table>
<thead>
<tr>
<th>Substance</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>None known.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>None known.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>None known.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>None known.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>None known.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>None known.</td>
</tr>
</tbody>
</table>

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

#### Specific hazards arising from the chemical

<table>
<thead>
<tr>
<th>Substance</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.</td>
</tr>
</tbody>
</table>

#### Hazardous thermal decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.</td>
</tr>
</tbody>
</table>

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Section 5. Fire-fighting measures

5.3 Advice for firefighters

Special protective actions for firefighters:

- **AR 1**
  - 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.

PCR Mix Plex 4
- Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - nitrogen oxides
  - phosphorus oxides

PCR Mix Plex 5
- Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - nitrogen oxides
  - phosphorus oxides

PCR Mix Plex 1

PCR Mix Plex 2

PCR Mix Plex 3

PCR Mix Plex 4

PCR Mix Plex 5

Taq DNA Polymerase

Special protective equipment for firefighters:

- **AR 1**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

PCR Mix Plex 1
- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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**Section 5. Fire-fighting measures**

<table>
<thead>
<tr>
<th>Material</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 2</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>
<tr>
<td>PCR Mix Plex 3</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>
<tr>
<td>PCR Mix Plex 4</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>
<tr>
<td>PCR Mix Plex 5</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>
<tr>
<td>Taq DNA Polymerase</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**: 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.

- **PCR Mix Plex 1**: 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.

- **PCR Mix Plex 2**: 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.

- **PCR Mix Plex 3**: 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.

- **PCR Mix Plex 4**: 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.

- **PCR Mix Plex 5**: 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.

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Section 6. Accidental release measures

Taq DNA Polymerase  appropriate personal protective equipment. 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : AR 1

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".

PCR Mix Plex 1

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).

PCR Mix Plex 2

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).

PCR Mix Plex 3

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).

PCR Mix Plex 4

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).

PCR Mix Plex 5

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).

6.2 Environmental precautions : AR 1

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).
## Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 4</td>
<td>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).</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>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).</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>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). Water polluting material. May be harmful to the environment if released in large quantities.</td>
</tr>
</tbody>
</table>

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

**Methods for cleaning up**  
 amat 1  
 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.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</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>PCR Mix Plex 2</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>PCR Mix Plex 3</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>PCR Mix Plex 4</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>PCR Mix Plex 5</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>Taq DNA Polymerase</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : AR 1

PCR Mix Plex 1
Put on appropriate personal protective equipment (see Section 8).

PCR Mix Plex 2
Put on appropriate personal protective equipment (see Section 8).

PCR Mix Plex 3
Put on appropriate personal protective equipment (see Section 8).

PCR Mix Plex 4
Put on appropriate personal protective equipment (see Section 8).

PCR Mix Plex 5
Put on appropriate personal protective equipment (see Section 8).

Taq DNA Polymerase
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. 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 : AR 1

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.

PCR Mix Plex 1
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.

PCR Mix Plex 2
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.

PCR Mix Plex 3
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.

PCR Mix Plex 4
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.
Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

PCR Mix Plex 5

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.

Taq DNA Polymerase

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.

AR 1

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.

PCR Mix Plex 1

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.

PCR Mix Plex 2

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.

PCR Mix Plex 3

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...
Section 7. Handling and storage

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.

PCR Mix Plex 4

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.

PCR Mix Plex 5

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.

Taq DNA Polymerase

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)

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>AR 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Industrial applications, Professional applications.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industrial sector specific solutions</th>
<th>AR 1</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

Date of issue: 06/21/2019
Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>TWA: 5 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-</td>
<td>OSHA PEL (United States, 5/2018).</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td></td>
<td>None.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

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

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

Individual protection measures

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

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

Skin protection

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

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

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

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

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: AR 1 Liquid.
PCR Mix Plex 1 Liquid.
PCR Mix Plex 2 Liquid.
PCR Mix Plex 3 Liquid.
PCR Mix Plex 4 Liquid.
PCR Mix Plex 5 Liquid.
Taq DNA Polymerase Liquid. [Clear. / solution]

Color:

AR 1 Not available.
PCR Mix Plex 1 Not available.
PCR Mix Plex 2 Not available.
PCR Mix Plex 3 Not available.
PCR Mix Plex 4 Not available.
PCR Mix Plex 5 Not available.
Taq DNA Polymerase Colorless.

Odor:

AR 1 Not available.
PCR Mix Plex 1 Not available.
PCR Mix Plex 2 Not available.
PCR Mix Plex 3 Not available.
PCR Mix Plex 4 Not available.
PCR Mix Plex 5 Not available.
Taq DNA Polymerase Not available.

Odor threshold:

AR 1 Not available.
PCR Mix Plex 1 Not available.
PCR Mix Plex 2 Not available.
PCR Mix Plex 3 Not available.
PCR Mix Plex 4 Not available.
PCR Mix Plex 5 Not available.
Taq DNA Polymerase Not available.

pH:

AR 1 Not available.
PCR Mix Plex 1 Not available.
PCR Mix Plex 2 Not available.
PCR Mix Plex 3 Not available.
PCR Mix Plex 4 Not available.
PCR Mix Plex 5 Not available.
Taq DNA Polymerase Not available.

Melting point:

AR 1 0°C (32°F)
PCR Mix Plex 1 Not available.
PCR Mix Plex 2 Not available.
PCR Mix Plex 3 Not available.
PCR Mix Plex 4 Not available.
PCR Mix Plex 5 Not available.
Taq DNA Polymerase Not available.

Boiling point:

AR 1 100°C (212°F)
PCR Mix Plex 1 Not available.
PCR Mix Plex 2 Not available.
PCR Mix Plex 3 Not available.
PCR Mix Plex 4 Not available.
PCR Mix Plex 5 Not available.
Taq DNA Polymerase Not available.
### Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>AR 1</th>
<th>PCR Mix Plex 1</th>
<th>PCR Mix Plex 2</th>
<th>PCR Mix Plex 3</th>
<th>PCR Mix Plex 4</th>
<th>PCR Mix Plex 5</th>
<th>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>PCB Mix Plex 4</th>
<th>Partially soluble in the following materials: cold water and hot water.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 5</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Partition coefficient: n-octanol/water:

| AR 1  | Not available. |
| PCR Mix Plex 1 | Not available. |
| PCR Mix Plex 2 | Not available. |
| PCR Mix Plex 3 | Not available. |
| PCR Mix Plex 4 | Not available. |
| PCR Mix Plex 5 | Not available. |
| Taq DNA Polymerase | Not available. |

Auto-ignition temperature:

| AR 1  | Not available. |
| PCR Mix Plex 1 | Not available. |
| PCR Mix Plex 2 | Not available. |
| PCR Mix Plex 3 | Not available. |
| PCR Mix Plex 4 | Not available. |
| PCR Mix Plex 5 | Not available. |
| Taq DNA Polymerase | Not available. |

Decomposition temperature:

| AR 1  | Not available. |
| PCR Mix Plex 1 | Not available. |
| PCR Mix Plex 2 | Not available. |
| PCR Mix Plex 3 | Not available. |
| PCR Mix Plex 4 | Not available. |
| PCR Mix Plex 5 | Not available. |
| Taq DNA Polymerase | Not available. |

Viscosity:

| AR 1  | Not available. |
| PCR Mix Plex 1 | Not available. |
| PCR Mix Plex 2 | Not available. |
| PCR Mix Plex 3 | Not available. |
| PCR Mix Plex 4 | Not available. |
| PCR Mix Plex 5 | Not available. |
| Taq DNA Polymerase | Not available. |

Section 10. Stability and reactivity

10.1 Reactivity: AR 1

| AR 1  | No specific test data related to reactivity available for this product or its ingredients. |
| PCR Mix Plex 1 | No specific test data related to reactivity available for this product or its ingredients. |
| PCR Mix Plex 2 | No specific test data related to reactivity available for this product or its ingredients. |
| PCR Mix Plex 3 | No specific test data related to reactivity available for this product or its ingredients. |
| PCR Mix Plex 4 | No specific test data related to reactivity available for this product or its ingredients. |
| PCR Mix Plex 5 | No specific test data related to reactivity available for this product or its ingredients. |
| Taq DNA Polymerase | No specific test data related to reactivity available for this product or its ingredients. |

10.2 Chemical stability: AR 1

| AR 1  | The product is stable. |
| PCR Mix Plex 1 | The product is stable. |
| PCR Mix Plex 2 | The product is stable. |
| PCR Mix Plex 3 | The product is stable. |
| PCR Mix Plex 4 | The product is stable. |
| PCR Mix Plex 5 | The product is stable. |
| Taq DNA Polymerase | The product is stable. |
### 10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>AR 1</th>
<th>Under normal conditions of storage and use, hazardous reactions will not occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 1</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>AR 1</td>
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</tr>
<tr>
<td>AR 1</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>AR 1</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>AR 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>AR 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>AR 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>AR 1</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

### 10.5 Incompatible materials

<table>
<thead>
<tr>
<th>AR 1</th>
<th>May react or be incompatible with oxidizing materials.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 1</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>AR 1</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>AR 1</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>AR 1</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td>AR 1</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
</tbody>
</table>

### 10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>AR 1</th>
<th>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 1</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
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</tr>
<tr>
<td>AR 1</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

Taq DNA Polymerase

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>Taq DNA Polymerase</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2800 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></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>Taq DNA Polymerase</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></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>1 Percent</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Section 11. Toxicological information

Information on the likely routes of exposure:

Inhalation:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

Ingestion:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

Skin contact:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

Inhalation:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

Causes eye irritation.

Potential acute health effects:

Eye contact:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

Ingestion:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

Skin contact:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

Adverse symptoms may include the following:
- irritation
- watering
- redness

Ingestion:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No specific data.
# Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>AR 1</th>
<th>PCR Mix Plex 1 No specific data.</th>
<th>PCR Mix Plex 2 No specific data.</th>
<th>PCR Mix Plex 3 No specific data.</th>
<th>PCR Mix Plex 4 No specific data.</th>
<th>PCR Mix Plex 5 No specific data.</th>
<th>Taq DNA Polymerase No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>AR 1</td>
<td>PCR Mix Plex 1 No specific data.</td>
<td>PCR Mix Plex 2 No specific data.</td>
<td>PCR Mix Plex 3 No specific data.</td>
<td>PCR Mix Plex 4 No specific data.</td>
<td>PCR Mix Plex 5 No specific data.</td>
<td>Taq DNA Polymerase No specific data.</td>
</tr>
</tbody>
</table>

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

**Short term exposure**

**Potential immediate effects**
- Not available.

**Potential delayed effects**
- Not available.

**Long term exposure**

**Potential immediate effects**
- Not available.

**Potential delayed effects**
- Not available.

**Potential chronic health effects**

**General**
- AR 1: No known significant effects or critical hazards.
- PCR Mix Plex 1: No known significant effects or critical hazards.
- PCR Mix Plex 2: No known significant effects or critical hazards.
- PCR Mix Plex 3: No known significant effects or critical hazards.
- PCR Mix Plex 4: No known significant effects or critical hazards.
- PCR Mix Plex 5: No known significant effects or critical hazards.
- Taq DNA Polymerase: No known significant effects or critical hazards.

**Carcinogenicity**
- AR 1: No known significant effects or critical hazards.
- PCR Mix Plex 1: No known significant effects or critical hazards.
- PCR Mix Plex 2: No known significant effects or critical hazards.
- PCR Mix Plex 3: No known significant effects or critical hazards.
- PCR Mix Plex 4: No known significant effects or critical hazards.
- PCR Mix Plex 5: No known significant effects or critical hazards.
- Taq DNA Polymerase: No known significant effects or critical hazards.

**Mutagenicity**
- AR 1: No known significant effects or critical hazards.
- PCR Mix Plex 1: No known significant effects or critical hazards.
- PCR Mix Plex 2: No known significant effects or critical hazards.
- PCR Mix Plex 3: No known significant effects or critical hazards.
- PCR Mix Plex 4: No known significant effects or critical hazards.
- PCR Mix Plex 5: No known significant effects or critical hazards.
- Taq DNA Polymerase: No known significant effects or critical hazards.

**Teratogenicity**
- AR 1: No known significant effects or critical hazards.
- PCR Mix Plex 1: No known significant effects or critical hazards.
- PCR Mix Plex 2: No known significant effects or critical hazards.
- PCR Mix Plex 3: No known significant effects or critical hazards.
- PCR Mix Plex 4: No known significant effects or critical hazards.
- PCR Mix Plex 5: No known significant effects or critical hazards.
- Taq DNA Polymerase: No known significant effects or critical hazards.
Section 11. Toxicological information

Developmental effects:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

No known significant effects or critical hazards.

Fertility effects:
- AR 1
- PCR Mix Plex 1
- PCR Mix Plex 2
- PCR Mix Plex 3
- PCR Mix Plex 4
- PCR Mix Plex 5
- Taq DNA Polymerase

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>Taq DNA Polymerase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-</td>
<td>12600</td>
<td>2800</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 210 µg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 10800 µg/l Marine water</td>
<td>Crustaceans - Pandalus montagui - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 8600 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 7200 µg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</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>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

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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>Taq DNA Polymerase</td>
<td>-1.76</td>
<td>3.77</td>
<td>low</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), alpha-[ (1,1,3,3-tetramethylbutyl) phenyl]-omega-hydroxy-</td>
<td>78.67</td>
<td></td>
<td></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. 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: 06/21/2019
Section 15. Regulatory information

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

U.S. Federal regulations

- **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**

<table>
<thead>
<tr>
<th>Classification</th>
<th>AR 1</th>
<th>PCR Mix Plex 1</th>
<th>PCR Mix Plex 2</th>
<th>PCR Mix Plex 3</th>
<th>PCR Mix Plex 4</th>
<th>PCR Mix Plex 5</th>
<th>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>EYE IRRITATION - Category 2B</td>
</tr>
</tbody>
</table>

**Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td></td>
<td>EYE IRRITATION - Category 2A</td>
</tr>
<tr>
<td>Glycerol</td>
<td>≥25 - ≤50</td>
<td></td>
</tr>
</tbody>
</table>

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-PROPYANETRIOIL

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

**California Prop. 65**

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

International regulations

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

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Section 15. Regulatory information
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**: Not determined.
- **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**: 06/21/2019
- **Date of previous issue**: 01/18/2018
- **Version**: 3
- **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
  - N/A = Not available
  - UN = United Nations

**Procedure used to derive the classification**

<table>
<thead>
<tr>
<th>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classification</strong></td>
</tr>
<tr>
<td>EYE IRRITATION - Category 2B</td>
</tr>
<tr>
<td>AQUATIC HAZARD (LONG-TERM) - Category 3</td>
</tr>
<tr>
<td><strong>Justification</strong></td>
</tr>
<tr>
<td>Calculation method</td>
</tr>
<tr>
<td>Calculation method</td>
</tr>
</tbody>
</table>

*Indicates information that has changed from previously issued version.*

**Notice to reader**
Section 16. Other information

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.