SAFETY DATA SHEET
BRCA MASTR Dx

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

1.1 Product identifier

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

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th>1 ml / 1.5 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>For In Vitro Diagnostic Use</td>
<td></td>
</tr>
<tr>
<td>AR 1</td>
<td>1 ml / 1.5 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 1</td>
<td>0.08 ml / 0.4 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>0.08 ml / 0.4 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>0.08 ml / 0.4 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>0.08 ml / 0.4 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>0.08 ml / 0.4 ml</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>0.008 ml / 0.017 ml</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Belgium
De Kleetlaan 5 bus 9
1831 Diegem
Belgium

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: AR 1 Mixture
PCRs Mix Plex 1 Mixture
PCRs Mix Plex 2 Mixture
PCRs Mix Plex 3 Mixture
PCRs Mix Plex 4 Mixture
PCRs Mix Plex 5 Mixture
Taq DNA Polymerase Mixture

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

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SECTION 2: Hazards identification

Ingredients of unknown toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td>10 - 30%</td>
</tr>
</tbody>
</table>

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

Signal word

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Signal word</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>AR 1</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>AR 1</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>AR 1</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>AR 1</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>AR 1</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>AR 1</td>
</tr>
</tbody>
</table>

Hazard statements

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Hazard statement</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>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Precautionary statements

Prevention

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Precautionary statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Response

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Storage

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Disposal

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Hazardous ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Supplemental label elements

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Supplemental label elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

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SECTION 2: Hazards identification

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

**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.

Special packaging requirements:

- **Tactile warning of danger**
  - Not applicable.

2.3 Other hazards which do not result in classification:

Other hazards which do not result in classification:

**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

### 3.1 Substances

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

<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>&lt;1</td>
<td>Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411</td>
<td>[1][5]</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-omega.-hydroxy-</td>
<td></td>
<td></td>
<td>See Section 16 for the full text of the H statements declared above.</td>
<td></td>
</tr>
</tbody>
</table>

**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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: AR 1

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. Get medical attention if irritation occurs.

Inhalation: AR 1

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.

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 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. Get medical attention if symptoms occur.

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**SECTION 4: First aid measures**

### Skin contact

<table>
<thead>
<tr>
<th>Product</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 1</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>PCR Mix Plex 1</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

### Ingestion

<table>
<thead>
<tr>
<th>Product</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 1</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 1</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 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 victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

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SECTION 4: First aid measures

Protection of first-aiders

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 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

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  
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  
No specific data.
SECTION 4: First aid measures

Inhalation: AR 1
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

Skin contact: AR 1
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

Ingestion: AR 1
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: AR 1
- PCR Mix Plex 1: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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: 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: 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: 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 5: 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: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: AR 1
- PCR Mix Plex 1: No specific treatment.
- PCR Mix Plex 2: No specific treatment.
- PCR Mix Plex 3: No specific treatment.
- PCR Mix Plex 4: No specific treatment.
- PCR Mix Plex 5: No specific treatment.
- Taq DNA Polymerase: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: AR 1
- PCR Mix Plex 1: Use an extinguishing agent suitable for the surrounding fire.
- PCR Mix Plex 2: Use an extinguishing agent suitable for the surrounding fire.
- PCR Mix Plex 3: Use an extinguishing agent suitable for the surrounding fire.
- PCR Mix Plex 4: Use an extinguishing agent suitable for the surrounding fire.
- PCR Mix Plex 5: Use an extinguishing agent suitable for the surrounding fire.
- Taq DNA Polymerase: Use an extinguishing agent suitable for the surrounding fire.

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BRCAMASTR Dx
SECTION 5: Firefighting measures

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: AR 1

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</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.</td>
</tr>
<tr>
<td>PCR Mix Plex 1</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.</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>
<tr>
<td>PCR Mix Plex 4</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide.</td>
</tr>
</tbody>
</table>

5.3 Advice for firefighters

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SECTION 5: Firefighting measures

Special precautions for fire-fighters:

- 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.

Special protective equipment for fire-fighters:

- 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.

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**SECTION 5: Firefighting measures**

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*

**AR 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 spilt 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 spilt 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 spilt 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 spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.

**PCR Mix Plex 1**

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".

**PCR Mix Plex 2**

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".

**PCR Mix Plex 3**

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".

**PCR Mix Plex 4**

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".

**PCR Mix Plex 5**

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".

*For emergency responders*

**AR 1**

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".

**PCR Mix Plex 1**

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".

**PCR Mix Plex 2**

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".

**PCR Mix Plex 3**

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".

**PCR Mix Plex 4**

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".

**PCR Mix Plex 5**

If specialised clothing is required to deal with the spillage,
### SECTION 6: Accidental release measures

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>PCR Mix Plex 1</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>PCR Mix Plex 5</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
</tbody>
</table>

### 6.2 Environmental precautions

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

**Methods for cleaning up**: 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.**

- **PCR Mix Plex 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.

- **PCR Mix Plex 2**
  - 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.

- **PCR Mix Plex 3**
  - 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.

- **PCR Mix Plex 4**
  - Stop leak if without risk. Move containers from spill area.
  - Dilute with water and mop up if water-soluble. Alternatively,
SECTION 6: Accidental release measures

If spill occurs: Absorb spills with an inert dry material. Dispose of waste spills via a licensed waste disposal contractor.

- **PCR Mix Plex 5**
  - 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.

- **Taq DNA Polymerase**
  - 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

**Protective measures**

- **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).

**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.
SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Storage: 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.

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 unlabelled 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 unlabelled 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 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.

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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

PCR Mix Plex 6
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.

PCR Mix Plex 7
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.

PCR Mix Plex 8
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.

PCR Mix Plex 9
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.

PCR Mix Plex 10
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.

PCR Mix Plex 11
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.

PCR Mix Plex 12
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.

PCR Mix Plex 13
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.

PCR Mix Plex 14
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.

PCR Mix Plex 15
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.

PCR Mix Plex 16
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.

PCR Mix Plex 17
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.

PCR Mix Plex 18
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.

PCR Mix Plex 19
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.

PCR Mix Plex 20
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.

PCR Mix Plex 21
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.

PCR Mix Plex 22
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.

PCR Mix Plex 23
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.

PCR Mix Plex 24
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.

PCR Mix Plex 25
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SECTION 7: Handling and storage

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.

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 unlabelled 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 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:
- Industrial sector specific solutions
  - AR 1: Industrial applications, Professional applications.
  - PCR Mix Plex 1: Industrial applications, Professional applications.
  - PCR Mix Plex 2: Industrial applications, Professional applications.
  - PCR Mix Plex 3: Industrial applications, Professional applications.
  - PCR Mix Plex 4: Industrial applications, Professional applications.
  - PCR Mix Plex 5: Industrial applications, Professional applications.
  - Taq DNA Polymerase: Industrial applications, Professional applications.

Industrial sector specific solutions:
- 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.

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>Taq DNA Polymerase</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011).</td>
</tr>
<tr>
<td>Glycerol</td>
<td>TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
<tr>
<td><strong>Recommended monitoring procedures</strong></td>
<td>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.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>DNELs/DMELs</strong></td>
<td>No DNELs/DMELs available.</td>
</tr>
<tr>
<td><strong>PNECs</strong></td>
<td>No PNECs available</td>
</tr>
<tr>
<td><strong>8.2 Exposure controls</strong></td>
<td><strong>Appropriate engineering controls</strong></td>
</tr>
<tr>
<td><strong>Individual protection measures</strong></td>
<td><strong>Hygiene measures</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Eye/face protection</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Skin protection</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Hand protection</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Other skin protection</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Respiratory protection</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Environmental exposure controls</strong></td>
</tr>
</tbody>
</table>
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]

- **Colour**
  - 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: Colourless.

- **Odour**
  - 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.

- **Odour 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/freezing point**
  - AR 1: 0°C
  - 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.

- **Initial boiling point and boiling range**
  - AR 1: 100°C
  - 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.

- **Flash point**
  - 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.

**Date of issue/Date of revision**: 18/01/2018
### 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>Relative density</strong></td>
<td>AR 1</td>
<td>PCR Mix Plex 1</td>
<td>PCR Mix Plex 2</td>
<td>PCR Mix Plex 3</td>
<td>PCR Mix Plex 4</td>
<td>PCR Mix Plex 5</td>
<td>Taq DNA Polymerase</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>AR 1</td>
<td>PCR Mix Plex 1</td>
<td>PCR Mix Plex 2</td>
<td>PCR Mix Plex 3</td>
<td>PCR Mix Plex 4</td>
<td>PCR Mix Plex 5</td>
<td>Taq DNA Polymerase</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>AR 1</td>
<td>PCR Mix Plex 1</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
<td>PCR Mix Plex 2</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
<td>PCR Mix Plex 3</td>
<td>Partially soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>AR 1</td>
<td>PCR Mix Plex 1</td>
<td>PCR Mix Plex 2</td>
<td>PCR Mix Plex 3</td>
<td>PCR Mix Plex 4</td>
<td>PCR Mix Plex 5</td>
<td>Taq DNA Polymerase</td>
</tr>
<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 available.</td>
</tr>
</tbody>
</table>

*Date of issue/Date of revision: 18/01/2018*
SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>AR 1, Not available. PC Mix Plex 1, Not available. PC Mix Plex 2, Not available. PC Mix Plex 3, Not available. PC Mix Plex 4, Not available. PC Mix Plex 5, Not available. Taq DNA Polymerase, Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>AR 1, Not available. PC Mix Plex 1, Not available. PC Mix Plex 2, Not available. PC Mix Plex 3, Not available. PC Mix Plex 4, Not available. PC Mix Plex 5, Not available. Taq DNA Polymerase, Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>AR 1, Not available. PC Mix Plex 1, Not available. PC Mix Plex 2, Not available. PC Mix Plex 3, Not available. PC Mix Plex 4, Not available. PC Mix Plex 5, Not available. Taq DNA Polymerase, Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>AR 1, Not available. PC Mix Plex 1, Not available. PC Mix Plex 2, Not available. PC Mix Plex 3, Not available. PC Mix Plex 4, Not available. PC Mix Plex 5, Not available. Taq DNA Polymerase, Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>AR 1, Not available. PC Mix Plex 1, Not available. PC Mix Plex 2, Not available. PC Mix Plex 3, Not available. PC Mix Plex 4, Not available. PC Mix Plex 5, Not available. Taq DNA Polymerase, Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>AR 1, Not available. PC Mix Plex 1, Not available. PC Mix Plex 2, Not available. PC Mix Plex 3, Not available. PC Mix Plex 4, Not available. PC Mix Plex 5, Not available. Taq DNA Polymerase, Not available.</td>
</tr>
</tbody>
</table>

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity
AR 1, Not available. No specific test data related to reactivity available for this product or its ingredients.
PCR Mix Plex 1, Not available. No specific test data related to reactivity available for this product or its ingredients.
PCR Mix Plex 2, Not available. No specific test data related to reactivity available for this product or its ingredients.
PCR Mix Plex 3, Not available. No specific test data related to reactivity available for this product or its ingredients.
PCR Mix Plex 4, Not available. No specific test data related to reactivity available for this product or its ingredients.
PCR Mix Plex 5, Not available. No specific test data related to reactivity available for this product or its ingredients.

Date of issue/Date of revision: 18/01/2018
# SECTION 10: Stability and reactivity

<table>
<thead>
<tr>
<th>Product</th>
<th>Hazardous decomposition products</th>
<th>Conditions to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>AR 1: No specific data.</td>
</tr>
</tbody>
</table>

## 10.2 Chemical stability
- **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
- **AR 1**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **PCR Mix Plex 1**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **PCR Mix Plex 2**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **PCR Mix Plex 3**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **PCR Mix Plex 4**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **PCR Mix Plex 5**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **Taq DNA Polymerase**: Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid
- **AR 1**: No specific data.
- **PCR Mix Plex 1**: No specific data.
- **PCR Mix Plex 2**: No specific data.
- **PCR Mix Plex 3**: No specific data.
- **PCR Mix Plex 4**: No specific data.
- **PCR Mix Plex 5**: No specific data.
- **Taq DNA Polymerase**: No specific data.

## 10.5 Incompatible materials
- **AR 1**: May react or be incompatible with oxidising materials.
- **PCR Mix Plex 1**: May react or be incompatible with oxidising materials.
- **PCR Mix Plex 2**: May react or be incompatible with oxidising materials.
- **PCR Mix Plex 3**: May react or be incompatible with oxidising materials.
- **PCR Mix Plex 4**: May react or be incompatible with oxidising materials.
- **PCR Mix Plex 5**: May react or be incompatible with oxidising materials.
- **Taq DNA Polymerase**: May react or be incompatible with oxidising materials.

## 10.6 Hazardous decomposition products
- **AR 1**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **PCR Mix Plex 1**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **PCR Mix Plex 2**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **PCR Mix Plex 3**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **PCR Mix Plex 4**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **PCR Mix Plex 5**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **Taq DNA Polymerase**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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>2800 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Irritation/Corrosion**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>1 Percent</td>
<td>-</td>
</tr>
</tbody>
</table>

**Sensitiser**

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information on likely routes of exposure</td>
<td>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 Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
</tbody>
</table>

**Potential acute health effects**

**Inhalation**

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

**Ingestion**

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

**Skin contact**

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

**Eye contact**

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

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

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### Toxicological information

#### General

**Inhalation**

- AR 1: No specific data.
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

**Ingestion**

- AR 1: No specific data.
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

**Skin contact**

- AR 1: No specific data.
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

**Eye contact**

- AR 1: No specific data.
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

#### Carcinogenicity

**Skin contact**

- AR 1: No specific data.
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

**Ingestion**

- AR 1: No specific data.
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

**Eye contact**

- AR 1: No specific data.
- PCR Mix Plex 1: No specific data.
- PCR Mix Plex 2: No specific data.
- PCR Mix Plex 3: No specific data.
- PCR Mix Plex 4: No specific data.
- PCR Mix Plex 5: No specific data.
- Taq DNA Polymerase: No specific data.

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

**Short term exposure**

- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

**Long term exposure**

- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

**Potential chronic health effects**

**General**

- 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.

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SECTION 11: Toxicological information

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.

Developmental effects:
- 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.

Fertility effects:
- 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.

Other information:
- 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 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 Poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-</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

Not available.

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>$\text{Log}_{\text{ow}}$</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase Poly(oxy-1,2-ethanediyl), (\alpha)-[(1,1,3,3-tetramethylbutyl)phenyl]-(\omega)-hydroxy-</td>
<td>3.77</td>
<td>78.67</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

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

**ADR/RID / IMDG / IATA**: Not regulated.

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.

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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

None of the components are listed.

Substances of very high concern

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Intrinsic property</th>
<th>Status</th>
<th>Reference number</th>
<th>Date of revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td>Poly(oxy-1,2-ethanediyl), alpha.-[(1,1,3,3-tetramethylbutyl)phenyl].omega.-hydroxy-</td>
<td>Substance of equivalent concern for environment</td>
<td>Recommended</td>
<td>ED/169/2012</td>
</tr>
</tbody>
</table>

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

Not applicable.

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.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Canada</td>
<td>Not determined.</td>
</tr>
<tr>
<td>China</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Europe</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Japan</td>
<td>Japan inventory (ENCS): Not determined.</td>
</tr>
<tr>
<td></td>
<td>Japan inventory (ISHL): Not determined.</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Philippines</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

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SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Republic of Korea</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Thailand</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Turkey</td>
<td>Not determined.</td>
</tr>
<tr>
<td>United States</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

15.2 Chemical safety assessment: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Abbreviations and acronyms:
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

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

Taq DNA Polymerase
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H411: Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Taq DNA Polymerase
- Aquatic Chronic 2, H411: LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
- Eye Dam. 1, H318: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
- Skin Irrit. 2, H315: SKIN CORROSION/IRRITATION - Category 2

Date of issue/ Date of revision : 18/01/2018
Date of previous issue : 30/08/2017.
Version : 2

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