SAFETY DATA SHEET

STARGARDT MASTR

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

1.1 Product identifier

Product name: STARGARDT MASTR
Part No. (Kit): MR-0171.024
Part No.:

AR 1  I-0799
PCR Mix Plex 1  I-0661
PCR Mix Plex 2  I-0662
PCR Mix Plex 3  I-0663
PCR Mix Plex 4  I-0664
Taq DNA Polymerase  I-1014

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

<table>
<thead>
<tr>
<th>Identified uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical reagent. For Research Use Only. Not for use in diagnostic procedures.</td>
</tr>
<tr>
<td>AR 1 1.5 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 1 0.240 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 2 0.240 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 3 0.240 ml</td>
</tr>
<tr>
<td>PCR Mix Plex 4 0.240 ml</td>
</tr>
<tr>
<td>Taq DNA Polymerase 0.012 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
PCR Mix Plex 1  Mixture
PCR Mix Plex 2  Mixture
PCR Mix Plex 3  Mixture
PCR Mix Plex 4  Mixture
Taq DNA Polymerase  Mixture

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

Date of issue/Date of revision: 18/01/2018 1/23
**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 dermal toxicity: 1 - 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%</td>
</tr>
</tbody>
</table>

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

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

### Ingredients of unknown ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 4</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%</td>
</tr>
</tbody>
</table>

### 2.2 Label elements

#### Signal word

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>AR 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>No signal word</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>No signal word</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>No signal word</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>No signal word</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>No signal word</td>
</tr>
</tbody>
</table>

#### Hazard statements

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>AR 1</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>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>AR 1</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>Taq DNA Polymerase</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

##### Response

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>AR 1</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>Taq DNA Polymerase</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

##### Storage

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>AR 1</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>Taq DNA Polymerase</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

##### Disposal

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>AR 1</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>Taq DNA Polymerase</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

##### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Taq DNA Polymerase</th>
</tr>
</thead>
</table>

##### Supplemental label elements

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>AR 1</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>Taq DNA Polymerase</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 18/01/2018
SECTION 2: Hazards identification

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</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>Taq DNA Polymerase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

2.3 Other hazards

Other hazards which do not result in classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</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>Taq DNA Polymerase</td>
<td>None known.</td>
</tr>
</tbody>
</table>

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taq DNA Polymerase</td>
<td></td>
<td></td>
<td></td>
<td>Mixture</td>
</tr>
<tr>
<td>Tactile warning of danger</td>
<td></td>
<td></td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>CAS: 56-81-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAS: 9036-19-5</td>
<td>&lt;1</td>
<td>Skin Irrit. 2, H315</td>
<td>[1] [5]</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</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
## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact**

<table>
<thead>
<tr>
<th>Product</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 1</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>PCR Mix Plex 1</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
</tbody>
</table>

**Inhalation**

<table>
<thead>
<tr>
<th>Product</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 1</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>PCR Mix Plex 1</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

**Skin contact**

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

**Date of issue/Date of revision**: 18/01/2018
SECTION 4: First aid measures

<table>
<thead>
<tr>
<th>Compound</th>
<th>Ingestion</th>
<th>Protection of first-aiders</th>
</tr>
</thead>
<tbody>
<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>
<td>No action shall be taken involving any personal risk or without suitable training.</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>
<td>No action shall be taken involving any personal risk or without suitable training.</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>
<td>No action shall be taken involving any personal risk or without suitable training.</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>
<td>No action shall be taken involving any personal risk or without suitable training.</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>
<td>No action shall be taken involving any personal risk or without suitable training.</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>
<td>No action shall be taken involving any personal risk or without suitable training.</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>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**
SECTION 4: First aid measures

Eye contact:
- 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.
- Taq DNA Polymerase: No known significant effects or critical hazards.

Inhalation:
- 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.
- Taq DNA Polymerase: No known significant effects or critical hazards.

Skin contact:
- 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.
- Taq DNA Polymerase: No known significant effects or critical hazards.

Ingestion:
- 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.
- Taq DNA Polymerase: No known significant effects or critical hazards.

Over-exposure signs/symptoms:

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.
- Taq DNA Polymerase: No specific data.

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.
- 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.
- 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.
- Taq DNA Polymerase: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician:
AR 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. 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.

STARGARDT MASTR

SECTION 4: First aid measures

<table>
<thead>
<tr>
<th>Substance/Enzyme</th>
<th>Specific treatments</th>
</tr>
</thead>
<tbody>
<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>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:
- AR 1: No specific treatment.
- 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.
- Taq DNA Polymerase: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
- AR 1: Use an extinguishing agent suitable for the surrounding fire.
- 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.
- Taq DNA Polymerase: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
- 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.
- Taq DNA Polymerase: None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:
- AR 1: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.
- PCR Mix Plex 1: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.
- PCR Mix Plex 2: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.
- PCR Mix Plex 3: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides.

Date of issue/Date of revision: 18/01/2018
SECTION 5: Firefighting measures

**5.3 Advice for firefighters**

**Special precautions for fire-fighters**

| PCR Mix Plex 4 | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, phosphorus oxides |
| Taq DNA Polymerase | Decomposition products may include the following materials: carbon dioxide, carbon monoxide |

**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 1**

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.

**PCR Mix Plex 2**

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.

**PCR Mix Plex 3**

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.

**PCR Mix Plex 4**

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.

**Taq DNA Polymerase**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SECTION 5: Firefighting measures

face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

- 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.

- Taq DNA Polymerase
  - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders:

- 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".

- Taq DNA Polymerase
  - 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".

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SECTION 6: Accidental release measures

6.2 Environmental precautions

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).

PCR Mix Plex 1
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).

PCR Mix Plex 2
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).

PCR Mix Plex 3
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).

PCR Mix Plex 4
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).

Taq DNA Polymerase
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

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, 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.
SECTION 6: Accidental release measures

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

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>

Advice on general occupational hygiene

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR Mix Plex 1</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>PCR Mix Plex 2</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>PCR Mix Plex 3</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>PCR Mix Plex 4</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>Taq DNA Polymerase</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
</tbody>
</table>

7.2 Conditions for safe storage, including any incompatibilities
SECTION 7: Handling and storage

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.

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.
SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations:

- **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.

- 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.

- 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></td>
</tr>
<tr>
<td>Glycerol</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011).</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures:

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

DNELs/DMELs

- No DNELs/DMELs available.

PNECs

- No PNECs available

8.2 Exposure controls

Appropriate engineering controls:

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

Individual protection measures

Hygiene measures:

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

Eye/face protection:

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

Skin protection

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SECTION 8: Exposure controls/personal protection

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

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.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical state</th>
<th>Colour</th>
<th>Odour</th>
<th>Odour threshold</th>
<th>pH</th>
<th>Melting point/freezing point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>AR 1 Liquid.</td>
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<tr>
<td>PCR Mix Plex 1 Liquid.</td>
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<tr>
<td>PCR Mix Plex 2 Liquid.</td>
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<tr>
<td>PCR Mix Plex 3 Liquid.</td>
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<tr>
<td>PCR Mix Plex 4 Liquid.</td>
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<tr>
<td>Taq DNA Polymerase Liquid. [Clear. / solution]</td>
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<tr>
<td>Colour</td>
<td>AR 1 Not available.</td>
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<tr>
<td>PCR Mix Plex 1 Not available.</td>
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<tr>
<td>PCR Mix Plex 2 Not available.</td>
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<tr>
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<tr>
<td>PCR Mix Plex 4 Not available.</td>
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<tr>
<td>Taq DNA Polymerase Colourless.</td>
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<tr>
<td>Odour</td>
<td>AR 1 Not available.</td>
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<tr>
<td>PCR Mix Plex 1 Not available.</td>
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<tr>
<td>PCR Mix Plex 2 Not available.</td>
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<tr>
<td>PCR Mix Plex 3 Not available.</td>
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<tr>
<td>PCR Mix Plex 4 Not available.</td>
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<tr>
<td>Taq DNA Polymerase Not available.</td>
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<tr>
<td>Odour threshold</td>
<td>AR 1 Not available.</td>
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<tr>
<td>PCR Mix Plex 1 Not available.</td>
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<tr>
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<td>PCR Mix Plex 3 Not available.</td>
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<tr>
<td>Taq DNA Polymerase Not available.</td>
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<tr>
<td>pH</td>
<td>AR 1 Not available.</td>
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<tr>
<td>PCR Mix Plex 1 Not available.</td>
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<tr>
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<tr>
<td>Taq DNA Polymerase Not available.</td>
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<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>AR 1 0°C</td>
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<td></td>
</tr>
<tr>
<td>PCR Mix Plex 1 Not available.</td>
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<tr>
<td>PCR Mix Plex 2 Not available.</td>
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<tr>
<td>PCR Mix Plex 3 Not available.</td>
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<tr>
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</tr>
<tr>
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</table>

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**STARGARDT MASTR**

## 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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Flash point</strong></td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
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<tr>
<td><strong>Evaporation rate</strong></td>
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<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
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</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
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</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
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<tr>
<td><strong>Vapour density</strong></td>
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<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
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<tr>
<td><strong>Relative density</strong></td>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
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<tr>
<td><strong>Solubility(ies)</strong></td>
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</tr>
</tbody>
</table>

- Easily soluble in the following materials: cold water and hot water.
- Not available.

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## SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical and chemical properties</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td></td>
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<tr>
<td><strong>Auto-ignition temperature</strong></td>
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<tr>
<td><strong>Decomposition temperature</strong></td>
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<tr>
<td><strong>Viscosity</strong></td>
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<tr>
<td><strong>Explosive properties</strong></td>
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</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td></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>
<td></td>
</tr>
</tbody>
</table>

9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

<table>
<thead>
<tr>
<th>Reactivity</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Reactivity</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No specific test data related to reactivity available for this product or its ingredients.
SECTION 10: Stability and reactivity

10.2 Chemical stability

<table>
<thead>
<tr>
<th>Product/ingredient name</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>Product/ingredient name</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</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>Product/ingredient name</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
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<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

10.5 Incompatible materials

<table>
<thead>
<tr>
<th>Product/ingredient name</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
</tbody>
</table>

10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>Product/ingredient name</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<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

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### SECTION 11: Toxicological information

#### Potential acute health effects

<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></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>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>1 Percent</td>
<td>-</td>
</tr>
</tbody>
</table>

**Inhalation**

- **AR 1**
- 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.
- Taq DNA Polymerase: Routes of entry anticipated: Oral, Dermal, Inhalation.

**Ingestion**

- **AR 1**
- 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.

**Skin contact**

- **AR 1**
- 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.

**Eye contact**

- **AR 1**
- 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.

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

**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.
- 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.
- Taq DNA Polymerase: No specific data.

---

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## SECTION 11: Toxicological information

### Potential chronic health effects

<table>
<thead>
<tr>
<th>Component</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
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</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Component</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>Taq DNA Polymerase</th>
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</table>

### Mutagenicity

<table>
<thead>
<tr>
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<th>PCR Mix Plex 2</th>
<th>PCR Mix Plex 3</th>
<th>PCR Mix Plex 4</th>
<th>Taq DNA Polymerase</th>
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</thead>
<tbody>
<tr>
<td></td>
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</table>

### Teratogenicity

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

### Developmental effects

<table>
<thead>
<tr>
<th>Component</th>
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<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>Taq DNA Polymerase</th>
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<tbody>
<tr>
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### Skin contact

<table>
<thead>
<tr>
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<th>No specific data.</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>Taq DNA Polymerase</th>
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</thead>
<tbody>
<tr>
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</table>

### Eye contact

<table>
<thead>
<tr>
<th>Component</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
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</tbody>
</table>

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

#### Short term exposure

<table>
<thead>
<tr>
<th>Effect</th>
<th>Not available.</th>
<th>Not available.</th>
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</thead>
</table>

#### Long term exposure

<table>
<thead>
<tr>
<th>Effect</th>
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<th>Not available.</th>
</tr>
</thead>
</table>

### Potential chronic health effects

#### General

<table>
<thead>
<tr>
<th>Component</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
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</tr>
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</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Component</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>No known significant effects or critical hazards.</td>
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</tr>
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</table>

### Mutagenicity

<table>
<thead>
<tr>
<th>Component</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>No known significant effects or critical hazards.</td>
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</table>

### Teratogenicity

<table>
<thead>
<tr>
<th>Component</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
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</table>

### Developmental effects

<table>
<thead>
<tr>
<th>Component</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>Taq DNA Polymerase</th>
</tr>
</thead>
<tbody>
<tr>
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<td>No known significant effects or critical hazards.</td>
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<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>
SECTION 11: Toxicological information

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.
- Taq DNA Polymerase: No known significant effects or critical hazards.

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>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

<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>3.77</td>
<td>78.67</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

- 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: 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.
SECTION 13: Disposal considerations

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.

包装

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.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV
None of the components are listed.

Substances of very high concern

<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>Substance of equivalent concern for environment</td>
<td>Recommended</td>
<td>ED/169/2012</td>
<td>2/10/2014</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>
</tbody>
</table>

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

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

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

Other EU regulations

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.

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SECTION 15: Regulatory information

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
Australia : Not determined.
Canada : Not determined.
China : Not determined.
Europe : Not determined.
Japan : Japan inventory (ENCS): Not determined.
 : Japan inventory (ISHL): Not determined.
Malaysia : 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.

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms
ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
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]

Date of issue/Date of revision : 18/01/2018
STARGARDE MASTR

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Taq DNA Polymerase</th>
<th>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic 2, H411</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>SKIN CORROSION/IRRITATION - Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td></td>
</tr>
</tbody>
</table>

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Notice to reader

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