SAFETY DATA SHEET
Agilent High Sensitivity DNA Reagents, Part Number 5067-4627

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

1.1 Product identifier
Product name: Agilent High Sensitivity DNA Reagents, Part Number 5067-4627
Part No. (Kit): 5067-4627
Part No.

<table>
<thead>
<tr>
<th>Product definition</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA</td>
<td>G2938-85004</td>
</tr>
<tr>
<td>Reagent Kit I</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th>Identification of the substance/mixture and of the company/undertaking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical chemistry.</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>4 x 200 µl</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>2 x 300 µl</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>1 x 40 µl</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>1 x 20 µl</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet
Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000
e-mail address of person responsible for this SDS: pdl-msds_author@agilent.com

1.4 Emergency telephone number
Emergency telephone number (with hours of operation): CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Product definition: High Sensitivity DNA Markers Mixture
High Sensitivity DNA Gel Matrix Mixture
High Sensitivity DNA Dye Mixture
High Sensitivity DNA Ladder Mixture

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

Date of issue/Date of revision: 30/10/2017
### Section 2: Hazards identification

#### Ingredients of unknown toxicity
- **High Sensitivity DNA Gel Matrix**: Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%
- **High Sensitivity DNA Gel Matrix**: Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
- **High Sensitivity DNA Gel Matrix**: Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%

#### Ingredients of unknown ecotoxicity
- **High Sensitivity DNA Gel Matrix**: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 6.5%

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

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Ingredient</th>
<th>Hazard statements</th>
<th>Precautionary statements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Sensitivity DNA Markers</strong></td>
<td>No signal word.</td>
<td>No known significant effects or critical hazards.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Gel Matrix</strong></td>
<td>No signal word.</td>
<td>No known significant effects or critical hazards.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Dye</strong></td>
<td>No signal word.</td>
<td>No known significant effects or critical hazards.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Ladder</strong></td>
<td>No signal word.</td>
<td>No known significant effects or critical hazards.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 30/10/2017
**SECTION 2: Hazards identification**

<table>
<thead>
<tr>
<th>Supplemental label elements</th>
<th>High Sensitivity DNA Markers</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>High Sensitivity DNA Dye</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>High Sensitivity DNA Ladder</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</th>
<th>High Sensitivity DNA Markers</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>High Sensitivity DNA Dye</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>High Sensitivity DNA Ladder</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Tactile warning of danger**

| High Sensitivity DNA Markers | Not applicable. |
| High Sensitivity DNA Gel Matrix | Not applicable. |
| High Sensitivity DNA Dye | Not applicable. |
| High Sensitivity DNA Ladder | Not applicable. |

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

<table>
<thead>
<tr>
<th>Substances</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Mixture</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Mixture</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Mixture</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

**SECTION 4: First aid measures**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>First aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</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>High Sensitivity DNA Gel Matrix</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>High Sensitivity DNA Dye</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>High Sensitivity DNA Ladder</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>

**Date of issue/Date of revision**

| 30/10/2017 | 3/21 |
## SECTION 4: First aid measures

### Inhalation

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</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>High Sensitivity DNA Gel Matrix</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>High Sensitivity DNA Dye</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>High Sensitivity DNA Ladder</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>Reagent</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

### Ingestion

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</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>High Sensitivity DNA Gel Matrix</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>High Sensitivity DNA Dye</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>High Sensitivity DNA Ladder</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>
## Agilent High Sensitivity DNA Reagents, Part Number 5067-4627

### SECTION 4: First aid measures

#### Protection of first-aiders

- **High Sensitivity DNA Markers**: No action shall be taken involving any personal risk or without suitable training.
- **High Sensitivity DNA Gel Matrix**: No action shall be taken involving any personal risk or without suitable training.
- **High Sensitivity DNA Dye**: No action shall be taken involving any personal risk or without suitable training.
- **High Sensitivity DNA Ladder**: No action shall be taken involving any personal risk or without suitable training.

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

##### Potential acute health effects

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Inhalation</th>
<th>Skin contact</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Sensitivity DNA Markers</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Gel Matrix</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Dye</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Ladder</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

##### Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Sensitivity DNA Markers</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Gel Matrix</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Dye</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>High Sensitivity DNA Ladder</strong></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 30/10/2017
Agilent High Sensitivity DNA Reagents, Part Number 5067-4627

SECTION 4: First aid measures

**Skin contact**
- **High Sensitivity DNA Markers**: No specific data.
- **High Sensitivity DNA Gel Matrix**: No specific data.
- **High Sensitivity DNA Dye**: No specific data.
- **High Sensitivity DNA Ladder**: No specific data.

**Ingestion**
- **High Sensitivity DNA Markers**: No specific data.
- **High Sensitivity DNA Gel Matrix**: No specific data.
- **High Sensitivity DNA Dye**: No specific data.
- **High Sensitivity DNA Ladder**: No specific data.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician**
- **High Sensitivity DNA Markers**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **High Sensitivity DNA Gel Matrix**: 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.
- **High Sensitivity DNA Dye**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **High Sensitivity DNA Ladder**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
- **High Sensitivity DNA Markers**: No specific treatment.
- **High Sensitivity DNA Gel Matrix**: No specific treatment.
- **High Sensitivity DNA Dye**: No specific treatment.
- **High Sensitivity DNA Ladder**: No specific treatment.

SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media**
- **High Sensitivity DNA Markers**: Use an extinguishing agent suitable for the surrounding fire.
- **High Sensitivity DNA Gel Matrix**: Use an extinguishing agent suitable for the surrounding fire.
- **High Sensitivity DNA Dye**: Use an extinguishing agent suitable for the surrounding fire.
- **High Sensitivity DNA Ladder**: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**
- **High Sensitivity DNA Markers**: None known.
- **High Sensitivity DNA Gel Matrix**: None known.
- **High Sensitivity DNA Dye**: None known.
- **High Sensitivity DNA Ladder**: None known.

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

**Hazards from the substance or mixture**
- **High Sensitivity DNA Markers**: In a fire or if heated, a pressure increase will occur and the container may burst.
- **High Sensitivity DNA Gel Matrix**: In a fire or if heated, a pressure increase will occur and the container may burst.
- **High Sensitivity DNA Dye**: In a fire or if heated, a pressure increase will occur and the container may burst.
- **High Sensitivity DNA Ladder**: In a fire or if heated, a pressure increase will occur and the...
SECTION 5: Firefighting measures

Hazardous combustion products:

- **High Sensitivity DNA Markers**: No specific data.
- **High Sensitivity DNA Gel Matrix**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - nitrogen oxides
  - sulfur oxides
- **High Sensitivity DNA Dye**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - sulfur oxides
- **High Sensitivity DNA Ladder**: No specific data.

5.3 Advice for firefighters

**Special precautions for fire-fighters**:

- **High Sensitivity DNA Markers**: 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.
- **High Sensitivity DNA Gel Matrix**: 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.
- **High Sensitivity DNA Dye**: 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.
- **High Sensitivity DNA Ladder**: 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**:

- **High Sensitivity DNA Markers**: 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.
- **High Sensitivity DNA Gel Matrix**: 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.
- **High Sensitivity DNA Dye**: 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.
- **High Sensitivity DNA Ladder**: 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.

Date of issue/Date of revision: 30/10/2017
## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | High Sensitivity DNA Markers | 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. |
| High Sensitivity DNA Gel Matrix | 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. |
| High Sensitivity DNA Dye | 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. |
| High Sensitivity DNA Ladder | 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 | High Sensitivity DNA Markers | 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". |
| High Sensitivity DNA Gel Matrix | 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". |
| High Sensitivity DNA Dye | 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". |
| High Sensitivity DNA Ladder | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

### 6.2 Environmental precautions

| High Sensitivity DNA Markers | 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). |
| High Sensitivity DNA Gel Matrix | 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). |
| High Sensitivity DNA Dye | 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). |
| High Sensitivity DNA Ladder | 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
SECTION 6: Accidental release measures

Methods for cleaning up:
- **High Sensitivity DNA Markers**: 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.
- **High Sensitivity DNA Gel Matrix**: 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.
- **High Sensitivity DNA Dye**: 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.
- **High Sensitivity DNA Ladder**: 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 7: Handling and storage

7.1 Precautions for safe handling
- **Protective measures**:
  - **High Sensitivity DNA Markers**: Put on appropriate personal protective equipment (see Section 8).
  - **High Sensitivity DNA Gel Matrix**: Put on appropriate personal protective equipment (see Section 8).
  - **High Sensitivity DNA Dye**: Put on appropriate personal protective equipment (see Section 8).
  - **High Sensitivity DNA Ladder**: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene:
- **High Sensitivity DNA Markers**: 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.
- **High Sensitivity DNA Gel Matrix**: 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.
- **High Sensitivity DNA Dye**: 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.
- **High Sensitivity DNA Ladder**: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
### SECTION 7: Handling and storage

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

**Storage**

<table>
<thead>
<tr>
<th>Product</th>
<th>Storage temperature</th>
<th>Storage instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>4°C (39.2°F)</td>
<td>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.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>4°C (39.2°F)</td>
<td>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.</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>4°C (39.2°F)</td>
<td>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.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>4°C (39.2°F)</td>
<td>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.</td>
</tr>
</tbody>
</table>

#### 7.3 Specific end use(s)

**Recommendations**

- **High Sensitivity DNA Markers**: Industrial applications, Professional applications.
- **High Sensitivity DNA Gel Matrix**: Industrial applications, Professional applications.
- **High Sensitivity DNA Dye**: Industrial applications, Professional applications.
- **High Sensitivity DNA Ladder**: Industrial applications, Professional applications.

**Industrial sector specific solutions**

- **High Sensitivity DNA Markers**: Not applicable.
- **High Sensitivity DNA Gel Matrix**: Not applicable.
- **High Sensitivity DNA Dye**: Not applicable.
- **High Sensitivity DNA Ladder**: Not applicable.

**Date of issue/Date of revision**: 30/10/2017
**SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

**Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring procedures**

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

**DNELs/DMELs**

No DNELs/DMELs available.

**PNECs**

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls**

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

**Individual protection measures**

#### Hygiene measures

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

#### Eye/face protection

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

#### Skin protection

**Hand protection**

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

**Body protection**

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

**Other skin protection**

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

**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>Melting point/freezing point</th>
<th>Initial boiling point and boiling range</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Liquid.</td>
<td>High Sensitivity DNA Markers</td>
<td>0°C</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Liquid.</td>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Liquid.</td>
<td>High Sensitivity DNA Dye</td>
<td>18.4°C</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Liquid.</td>
<td>High Sensitivity DNA Ladder</td>
<td>100°C</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Not available.</td>
<td>High Sensitivity DNA Markers</td>
<td>0°C</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Odourless.</td>
<td>High Sensitivity DNA Markers</td>
<td>0°C</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Odourless.</td>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Slight</td>
<td>High Sensitivity DNA Dye</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Not available.</td>
<td>High Sensitivity DNA Markers</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>6.5 to 8</td>
<td>High Sensitivity DNA Markers</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>0°C</td>
<td>High Sensitivity DNA Markers</td>
<td>Not available.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</td>
<td>High Sensitivity DNA Gel Matrix</td>
<td>189°C</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>0°C</td>
<td>High Sensitivity DNA Dye</td>
<td>100°C</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>100°C</td>
<td>High Sensitivity DNA Ladder</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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## SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>High Sensitivity DNA Markers</th>
<th>High Sensitivity DNA Gel Matrix</th>
<th>High Sensitivity DNA Dye</th>
<th>High Sensitivity DNA Ladder</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</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>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Lower: 2.6%</td>
<td>Upper: 42 to 63%</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>0.056 kPa [room temperature]</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>2.7 [Air = 1]</td>
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<td><strong>Relative density</strong></td>
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<td>Not available.</td>
<td>1.1</td>
<td>Not available.</td>
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</table>

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## SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>High Sensitivity DNA Markers</th>
<th>High Sensitivity DNA Gel Matrix</th>
<th>High Sensitivity DNA Dye</th>
<th>High Sensitivity DNA Ladder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility(ies)</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### 9.2 Other information

No additional information.
SECTION 10: Stability and reactivity

### 10.1 Reactivity
- **High Sensitivity DNA Markers**: No specific test data related to reactivity available for this product or its ingredients.
- **High Sensitivity DNA Gel Matrix**: No specific test data related to reactivity available for this product or its ingredients.
- **High Sensitivity DNA Dye**: No specific test data related to reactivity available for this product or its ingredients.
- **High Sensitivity DNA Ladder**: No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability
- **High Sensitivity DNA Markers**: The product is stable.
- **High Sensitivity DNA Gel Matrix**: The product is stable.
- **High Sensitivity DNA Dye**: The product is stable.
- **High Sensitivity DNA Ladder**: The product is stable.

### 10.3 Possibility of hazardous reactions
- **High Sensitivity DNA Markers**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **High Sensitivity DNA Gel Matrix**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **High Sensitivity DNA Dye**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **High Sensitivity DNA Ladder**: Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid
- **High Sensitivity DNA Markers**: No specific data.
- **High Sensitivity DNA Gel Matrix**: No specific data.
- **High Sensitivity DNA Dye**: No specific data.
- **High Sensitivity DNA Ladder**: No specific data.

### 10.5 Incompatible materials
- **High Sensitivity DNA Markers**: May react or be incompatible with oxidising materials.
- **High Sensitivity DNA Gel Matrix**: May react or be incompatible with oxidising materials.
- **High Sensitivity DNA Dye**: May react or be incompatible with oxidising materials.
- **High Sensitivity DNA Ladder**: May react or be incompatible with oxidising materials.

### 10.6 Hazardous decomposition products
- **High Sensitivity DNA Markers**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **High Sensitivity DNA Gel Matrix**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **High Sensitivity DNA Dye**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **High Sensitivity DNA Ladder**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not available.

Acute toxicity estimates
Not available.

Irritation/Corrosion
Conclusion/Summary: Not available.

Sensitiser
Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure:
- High Sensitivity DNA Gel Matrix: Not available.
- High Sensitivity DNA Dye: Not available.
- High Sensitivity DNA Ladder: Not available.

Potential acute health effects

Inhalation: High Sensitivity DNA Markers: No known significant effects or critical hazards.
- High Sensitivity DNA Gel Matrix: No known significant effects or critical hazards.
- High Sensitivity DNA Dye: No known significant effects or critical hazards.
- High Sensitivity DNA Ladder: Not available.

Ingestion: High Sensitivity DNA Markers: No known significant effects or critical hazards.
- High Sensitivity DNA Gel Matrix: No known significant effects or critical hazards.
- High Sensitivity DNA Dye: No known significant effects or critical hazards.
- High Sensitivity DNA Ladder: Not available.

Skin contact: High Sensitivity DNA Markers: No known significant effects or critical hazards.
- High Sensitivity DNA Gel Matrix: No known significant effects or critical hazards.
- High Sensitivity DNA Dye: No known significant effects or critical hazards.
- High Sensitivity DNA Ladder: Not available.

Eye contact: High Sensitivity DNA Markers: No known significant effects or critical hazards.
- High Sensitivity DNA Gel Matrix: No known significant effects or critical hazards.
- High Sensitivity DNA Dye: No known significant effects or critical hazards.
- High Sensitivity DNA Ladder: Not available.
## SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Exposure</th>
<th>High Sensitivity DNA Markers</th>
<th>High Sensitivity DNA Gel Matrix</th>
<th>High Sensitivity DNA Dye</th>
<th>High Sensitivity DNA Ladder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

#### Short term exposure

**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

<table>
<thead>
<tr>
<th>Component</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

#### Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>
 SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Mutagenicity</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td></td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td></td>
</tr>
<tr>
<td>Developmental effects</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td></td>
</tr>
<tr>
<td>Fertility effects</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td></td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td></td>
</tr>
</tbody>
</table>

 SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

Date of issue/Date of revision : 30/10/2017
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.

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.

**Annex XIV - Substances of very high concern**

- None of the components are listed.

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

- High Sensitivity DNA Markers: Not applicable.
- High Sensitivity DNA Gel: Not applicable.
- Matrix: Not applicable.
- High Sensitivity DNA Dye: Not applicable.
- High Sensitivity DNA Ladder: Not applicable.

**Other EU regulations**

- **Industrial emissions (integrated pollution prevention and control) - Air**

**Listed**

**Date of issue/Date of revision**: 30/10/2017
SECTION 15: Regulatory information

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
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
Not applicable.

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SECTION 16: Other information

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

Date of issue/ Date of revision : 30/10/2017
Date of previous issue : 16/02/2017.
Version : 2.1

Notice to reader

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