SAFETY DATA SHEET
Agilent High Sensitivity DNA Kit, Part Number 5067-4626

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

1.1 Product identifier
Product name: Agilent High Sensitivity DNA Kit, Part Number 5067-4626
Part No. (Kit): 5067-4626
Part No.:
- High Sensitivity DNA Markers: Not available.
- High Sensitivity DNA Gel Matrix: Not available.
- High Sensitivity DNA Dye: Not available.
- High Sensitivity DNA Ladder: Not available.

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 chemistry.</td>
</tr>
<tr>
<td>High Sensitivity DNA Markers: 4 x 200 µl</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix: 2 x 300 µl</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye: 1 x 40 µl</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder: 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.

Ingredients of unknown toxicity:
- High Sensitivity DNA Gel Matrix: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 6.5%

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%

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SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word:
- High Sensitivity DNA Markers: No signal word.
- High Sensitivity DNA Gel Matrix: No signal word.
- High Sensitivity DNA Dye: No signal word.
- High Sensitivity DNA Ladder: No signal word.

Hazard statements:
- 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: No known significant effects or critical hazards.

Precautionary statements

Prevention:
- 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.

Response:
- 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.

Storage:
- 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.

Disposal:
- 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.

Supplemental label elements:
- 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.

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

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SECTION 2: Hazards identification

2.3 Other hazards

Other hazards which do not result in classification:

- 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.

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

3.1 Substances:

- High Sensitivity DNA Markers: Mixture
- High Sensitivity DNA Gel Matrix: Mixture
- High Sensitivity DNA Dye: Mixture
- High Sensitivity DNA Ladder: Mixture

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.

Type:

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact:

- High Sensitivity DNA Markers: 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.
- High Sensitivity DNA Gel Matrix: 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.
- High Sensitivity DNA Dye: 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.
- High Sensitivity DNA Ladder: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation:

- High Sensitivity DNA Markers: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- High Sensitivity DNA Gel Matrix: 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.
- High Sensitivity DNA Dye: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- High Sensitivity DNA Ladder: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SECTION 4: First aid measures

Skin contact

- **High Sensitivity DNA Markers**
  - 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.
  - Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

- **High Sensitivity DNA Gel Matrix**
  - 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.
  - Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

- **High Sensitivity DNA Dye**
  - 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.
  - Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

- **High Sensitivity DNA Ladder**
  - 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.
  - Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

- **High Sensitivity DNA Markers**
  - 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.

- **High Sensitivity DNA Gel Matrix**
  - 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.

- **High Sensitivity DNA Dye**
  - 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.

- **High Sensitivity DNA Ladder**
  - Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders

- **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**

**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**
  - No known significant effects or critical hazards.

**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**
  - No known significant effects or critical hazards.

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SECTION 4: First aid measures

**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: No known significant effects or critical hazards.

**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: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye 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.

**Inhalation**
- 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.

**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: 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 Gel Matrix: No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
- High Sensitivity DNA Markers
- High Sensitivity DNA Gel Matrix
- High Sensitivity DNA Dye
- High Sensitivity DNA Ladder

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
- High Sensitivity DNA Markers
- High Sensitivity DNA Gel Matrix
- High Sensitivity DNA Dye
- High Sensitivity DNA Ladder

None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:
- High Sensitivity DNA Markers
- High Sensitivity DNA Gel Matrix
- High Sensitivity DNA Dye
- High Sensitivity DNA Ladder

Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- nitrogen oxides
- sulfur oxides

5.3 Advice for firefighters

Special precautions for fire-fighters:
- High Sensitivity DNA Markers
- High Sensitivity DNA Gel Matrix
- High Sensitivity DNA Dye
- 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
- 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.

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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.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>High Sensitivity DNA Markers</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

| 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. |

<table>
<thead>
<tr>
<th>For emergency responders</th>
<th>High Sensitivity DNA Markers</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 &quot;For non-emergency personnel&quot;.</td>
<td></td>
</tr>
</tbody>
</table>

| 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". |
SECTION 6: Accidental release measures

6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Product</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
</tbody>
</table>

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

<table>
<thead>
<tr>
<th>Product</th>
<th>Cleanup Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
</tbody>
</table>

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>Protective Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</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>Hygiene Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</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>High Sensitivity DNA Gel Matrix</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,</td>
</tr>
</tbody>
</table>
SECTION 7: Handling and storage

High Sensitivity DNA Markers

- Storage temperature: 4°C (39.2°F).
- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Avoid 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.

High Sensitivity DNA Gel Matrix

- Storage temperature: 4°C (39.2°F).
- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Avoid 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.

High Sensitivity DNA Dye

- Storage temperature: 4°C (39.2°F).
- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Avoid 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.

High Sensitivity DNA Ladder

- Storage temperature: 4°C (39.2°F).
- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Avoid 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.

7.2 Conditions for safe storage, including any incompatibilities

- **Storage**
  - High Sensitivity DNA Markers: Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Avoid 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.

- High Sensitivity DNA Gel Matrix: Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Avoid 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.

- High Sensitivity DNA Dye: Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Avoid 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.

- High Sensitivity DNA Ladder: Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Avoid 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.

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.

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SECTION 7: Handling and storage

<table>
<thead>
<tr>
<th>Industrial sector specific solutions</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>

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.
SECTION 8: Exposure controls/personal protection

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

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>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>Colour</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Slight</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless.</td>
<td>Odourless.</td>
<td>Slight</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 to 8</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>0°C</td>
<td>18.4°C</td>
<td>0°C</td>
<td>0°C</td>
</tr>
</tbody>
</table>
## 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>Initial boiling point and boiling range</td>
<td>100°C</td>
<td>Not available.</td>
<td>189°C</td>
<td>100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not available.</td>
<td></td>
<td>Lower: 2.6%</td>
<td>Upper: 42 to 63%</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
<td></td>
<td>0.056 kPa [room temperature]</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
<td></td>
<td>2.7 [Air = 1]</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
## 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>Relative density</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

- **Solubility(ies)**: Easily soluble in the following materials: cold water and hot water.
- **Viscosity**: Not available.
### SECTIO 9: Physical and chemical properties

**Oxidising properties**

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

**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. Avoid all possible sources of ignition (spark or flame). Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Do not allow vapour to accumulate in low or confined areas. |
| 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. |
SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>High Sensitivity DNA Dye</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>High Sensitivity DNA Ladder</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not available.

Acute toxicity estimates
Not available.

Irritation/Corrosion

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

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Sensitivity DNA Markers</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>High Sensitivity DNA Gel Matrix</td>
<td>Not available.</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>

Potential acute health effects

Inhalation

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</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>

Ingestion

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</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>

Skin contact

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</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

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**: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation**
- **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.

**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.

**Eye 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.

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**: No known significant effects or critical hazards.
- **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**: No known significant effects or critical hazards.
## SECTION 11: Toxicological information

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

### Mutagenicity

<table>
<thead>
<tr>
<th>High Sensitivity DNA Markers</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<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>

### Teratogenicity

<table>
<thead>
<tr>
<th>High Sensitivity DNA Markers</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<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>

### Developmental effects

<table>
<thead>
<tr>
<th>High Sensitivity DNA Markers</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<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>

### Fertility effects

<table>
<thead>
<tr>
<th>High Sensitivity DNA Markers</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<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 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\text{OC})**

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

### 12.5 Results of PBT and vPvB assessment

**PBT**: Not applicable.

**vPvB**: Not applicable.

### 12.6 Other adverse effects

| No known significant effects or critical hazards. |
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory 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

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
High Sensitivity DNA Dye Not applicable.
High Sensitivity DNA Ladder Not applicable.

Other EU regulations

Europe inventory: Not determined.

Industrial emissions (integrated pollution prevention and control) - Air

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Date of issue/Date of revision: 16/02/2017
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.

International lists

National inventory

Australia: Not determined.
Canada: Not determined.
China: 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.
Turkey: Not determined.
United States: 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.

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

Date of issue/Date of revision: 16/02/2017
### SECTION 16: Other information

| Date of issue/Date of revision | : 16/02/2017 |
| Date of previous issue | : 28/01/2016. |
| Version | : 2 |

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