SAFETY DATA SHEET
PathDetect ISRE cis Reporting System, Part Number 219092

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

1.1 Product identifier
Product name: PathDetect ISRE cis Reporting System, Part Number 219092
Part No. (Kit): 219092
Part No. (Kit): pISRE-Luc Plasmid 219089-51
pCIS-CK Negative Control Plasmid 219090-51

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

<table>
<thead>
<tr>
<th>Identified uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical reagent.</td>
</tr>
<tr>
<td>pISRE-Luc Plasmid 0.05 ml (50 µg 1 µg/µl)</td>
</tr>
<tr>
<td>pCIS-CK Negative Control Plasmid 0.05 ml (50 µg 1 µg/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: pISRE-Luc Plasmid Mixture
pCIS-CK Negative Control Plasmid Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.

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: pISRE-Luc Plasmid No signal word.
pCIS-CK Negative Control Plasmid No signal word.

Hazard statements: pISRE-Luc Plasmid No known significant effects or critical hazards.
pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.

Precautionary statements

Date of issue/Date of revision: 31/12/2017
SECTION 2: Hazards identification

| Prevention | pISRE-Luc Plasmid | Not applicable. |
| Control Plasmid | pCIS-CK Negative Control Plasmid | Not applicable. |

| Response | pISRE-Luc Plasmid | Not applicable. |
| Control Plasmid | pCIS-CK Negative Control Plasmid | Not applicable. |

| Storage | pISRE-Luc Plasmid | Not applicable. |
| Control Plasmid | pCIS-CK Negative Control Plasmid | Not applicable. |

| Disposal | pISRE-Luc Plasmid | Not applicable. |
| Control Plasmid | pCIS-CK Negative Control Plasmid | Not applicable. |

| Supplemental label elements | pISRE-Luc Plasmid | Not applicable. |
| Control Plasmid | pCIS-CK Negative Control Plasmid | Not applicable. |

| 2.3 Other hazards | pISRE-Luc Plasmid | None known. |
| Control Plasmid | pCIS-CK Negative Control Plasmid | None known. |

SECTION 3: Composition/information on ingredients

3.1 Substances | pISRE-Luc Plasmid | Mixture |
| Control Plasmid | pCIS-CK Negative Control Plasmid | 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
[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact | pISRE-Luc Plasmid | 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. |
| pCIS-CK Negative Control Plasmid | 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. |

Date of issue/Date of revision: 31/12/2017
### SECTION 4: First aid measures

<table>
<thead>
<tr>
<th>Mode</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</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><strong>Skin contact</strong></td>
<td>Wash out mouth with water. Remove contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td>Wash out mouth with water. Remove contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
<td>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>

**Protection of first-aiders**

<table>
<thead>
<tr>
<th>Mode</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Mode</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></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>Mode</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 31/12/2017
**SECTION 4: First aid measures**

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

<table>
<thead>
<tr>
<th>Notes to physician</th>
<th>pISRE-Luc Plasmid</th>
<th>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific treatments</th>
<th>pISRE-Luc Plasmid</th>
<th>No specific treatment.</th>
</tr>
</thead>
</table>

**SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>pISRE-Luc Plasmid</th>
<th>Use an extinguishing agent suitable for the surrounding fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>pISRE-Luc Plasmid</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
<td>None known.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hazards from the substance or mixture</th>
<th>pISRE-Luc Plasmid</th>
<th>In a fire or if heated, a pressure increase will occur and the container may burst.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous combustion products</th>
<th>pISRE-Luc Plasmid</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>pISRE-Luc Plasmid</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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.</td>
</tr>
</tbody>
</table>

**SECTION 6: Accidental release measures**

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

#### For non-emergency personnel

<table>
<thead>
<tr>
<th>pISRE-Luc Plasmid</th>
<th>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 spill material. Put on appropriate personal protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCIS-CK Negative Control Plasmid</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.</td>
</tr>
</tbody>
</table>
SECTION 6: Accidental release measures

For emergency responders:
- **pISRE-Luc Plasmid**: Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- **pCIS-CK Negative Control Plasmid**: 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:
- **pISRE-Luc Plasmid**: 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).
- **pCIS-CK Negative Control Plasmid**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up:
- **Methods for cleaning up**:
  - **pISRE-Luc Plasmid**: 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.
  - **pCIS-CK Negative Control Plasmid**: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections:
- See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:
- **Protective measures**:
  - **pISRE-Luc Plasmid**: Put on appropriate personal protective equipment (see Section 8).
  - **pCIS-CK Negative Control Plasmid**: Put on appropriate personal protective equipment (see Section 8).
- **Advice on general occupational hygiene**:
  - **pISRE-Luc Plasmid**: 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.
  - **pCIS-CK Negative Control Plasmid**: 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.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Storage:
- **pISRE-Luc Plasmid**: 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.

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

7.3 Specific end use(s)

**Recommendations**:
- **Industrial sector specific solutions**: pISRE-Luc Plasmid - Not applicable. pCIS-CK Negative Control Plasmid - Not applicable.

**Industrial applications, Professional applications.**

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**

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SECTION 8: Exposure controls/personal protection

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>Property</th>
<th>Value</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>pISRE-Luc Plasmid Not available.</td>
<td>pCIS-CK Negative Control Plasmid Not available.</td>
</tr>
<tr>
<td>Odour</td>
<td>pISRE-Luc Plasmid Not available.</td>
<td>pCIS-CK Negative Control Plasmid Not available.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>pISRE-Luc Plasmid Not available.</td>
<td>pCIS-CK Negative Control Plasmid Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>pISRE-Luc Plasmid 7.5</td>
<td>pCIS-CK Negative Control Plasmid 7.5</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>pISRE-Luc Plasmid 0°C</td>
<td>pCIS-CK Negative Control Plasmid 0°C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>pISRE-Luc Plasmid 100°C</td>
<td>pCIS-CK Negative Control Plasmid 100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>pISRE-Luc Plasmid Not available.</td>
<td>pCIS-CK Negative Control Plasmid Not available.</td>
</tr>
</tbody>
</table>
SECTION 9: Physical and chemical properties

Evaporation rate:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Flammability (solid, gas):
- pISRE-Luc Plasmid: Not applicable.
- pCIS-CK Negative Control Plasmid: Not applicable.

Upper/lower flammability or explosive limits:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Vapour pressure:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Vapour density:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Relative density:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Solubility(ies):
- pISRE-Luc Plasmid: Easily soluble in the following materials: cold water and hot water.
- pCIS-CK Negative Control Plasmid: Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Auto-ignition temperature:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Decomposition temperature:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Viscosity:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Explosive properties:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

Oxidising properties:
- pISRE-Luc Plasmid: Not available.
- pCIS-CK Negative Control Plasmid: Not available.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity:
- pISRE-Luc Plasmid: No specific test data related to reactivity available for this product or its ingredients.
- pCIS-CK Negative Control Plasmid: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability:
- pISRE-Luc Plasmid: The product is stable.
- pCIS-CK Negative Control Plasmid: The product is stable.
SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

- **pISRE-Luc Plasmid**
  - Under normal conditions of storage and use, hazardous reactions will not occur.

- **pCIS-CK Negative Control Plasmid**
  - Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

- **pISRE-Luc Plasmid**
  - No specific data.

- **pCIS-CK Negative Control Plasmid**
  - No specific data.

10.5 Incompatible materials

- **pISRE-Luc Plasmid**
  - May react or be incompatible with oxidising materials.

- **pCIS-CK Negative Control Plasmid**
  - May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

- **pISRE-Luc Plasmid**
  - Under normal conditions of storage and use, hazardous decomposition products should not be produced.

- **pCIS-CK Negative Control Plasmid**
  - Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

**Acute toxicity**

- 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**

- **pISRE-Luc Plasmid**
  - Not available.

- **pCIS-CK Negative Control Plasmid**
  - Not available.

**Potential acute health effects**

- **Inhalation**
  - **pISRE-Luc Plasmid**
    - No known significant effects or critical hazards.
  - **pCIS-CK Negative Control Plasmid**
    - No known significant effects or critical hazards.

- **Ingestion**
  - **pISRE-Luc Plasmid**
    - No known significant effects or critical hazards.
  - **pCIS-CK Negative Control Plasmid**
    - No known significant effects or critical hazards.

- **Skin contact**
  - **pISRE-Luc Plasmid**
    - No known significant effects or critical hazards.
  - **pCIS-CK Negative Control Plasmid**
    - No known significant effects or critical hazards.

- **Eye contact**
  - **pISRE-Luc Plasmid**
    - No known significant effects or critical hazards.
  - **pCIS-CK Negative Control Plasmid**
    - No known significant effects or critical hazards.

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

Date of issue/Date of revision: 31/12/2017
SECTION 11: Toxicological information

Inhalation:
- pISRE-Luc Plasmid: No specific data.
- pCIS-CK Negative Control Plasmid: No specific data.

Ingestion:
- pISRE-Luc Plasmid: No specific data.
- pCIS-CK Negative Control Plasmid: No specific data.

Skin contact:
- pISRE-Luc Plasmid: No specific data.
- pCIS-CK Negative Control Plasmid: No specific data.

Eye contact:
- pISRE-Luc Plasmid: No specific data.
- pCIS-CK Negative Control Plasmid: 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:
- pISRE-Luc Plasmid: No known significant effects or critical hazards.
- pCIS-CK Negative Control Plasmid: No known significant effects or critical hazards.

Carcinogenicity:
- pISRE-Luc Plasmid: No known significant effects or critical hazards.
- pCIS-CK Negative Control Plasmid: No known significant effects or critical hazards.

Mutagenicity:
- pISRE-Luc Plasmid: No known significant effects or critical hazards.
- pCIS-CK Negative Control Plasmid: No known significant effects or critical hazards.

Teratogenicity:
- pISRE-Luc Plasmid: No known significant effects or critical hazards.
- pCIS-CK Negative Control Plasmid: No known significant effects or critical hazards.

Developmental effects:
- pISRE-Luc Plasmid: No known significant effects or critical hazards.
- pCIS-CK Negative Control Plasmid: No known significant effects or critical hazards.

Fertility effects:
- pISRE-Luc Plasmid: No known significant effects or critical hazards.
- pCIS-CK Negative Control Plasmid: No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity
Conclusion/Summary: Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

Date of issue/Date of revision: 31/12/2017
SECTION 12: Ecological information

12.4 Mobility in soil

- Soil/water partition coefficient (KOC): Not available.
- Mobility: Not available.

12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product 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

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.
### SECTION 15: Regulatory information

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>pISRE-Luc Plasmid</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>pCIS-CK Negative Control Plasmid</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Other EU regulations

**Ozone depleting substances (1005/2009/EU)**
Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**
Not listed.

**Seveso Directive**
This product is not controlled under the Seveso Directive.

#### International regulations

**Chemical Weapon Convention List Schedules I, II & III Chemicals**
Not listed.

**Montreal Protocol (Annexes A, B, C, E)**
Not listed.

**Stockholm Convention on Persistent Organic Pollutants**
Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**
Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**
Not listed.

#### Inventory list

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Canada</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>China</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Europe</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
<td><strong>Japan inventory (ENCS)</strong>: All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
<td><strong>Japan inventory (ISHL)</strong>: All components are listed or exempted.</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Philippines</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>All components are listed or exempted.</td>
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<tr>
<td>Taiwan</td>
<td>All components are listed or exempted.</td>
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<tr>
<td>Thailand</td>
<td>Not determined.</td>
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<tr>
<td>Turkey</td>
<td>Not determined.</td>
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<tr>
<td>United States</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

#### 15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments might still be required.
SECTION 16: Other information

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: 31/12/2017

Date of previous issue: No previous validation.

Version: 1

Notice to reader

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