Section 1. Identification

1.1 Product identifier
Product name: PathDetect ISRE cis Reporting System, Part Number 219092
Part No. (Chemical Kit): 219092
Part No.: pISRE-Luc Plasmid 219089-51
pCIS-CK Negative Control Plasmid 219090-51
Validation date: 12/31/2017

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses: Analytical reagent.

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>pISRE-Luc Plasmid</td>
<td>0.05 ml (50 µg 1 µg/µl)</td>
</tr>
<tr>
<td>pCIS-CK Negative Control Plasmid</td>
<td>0.05 ml (50 µg 1 µg/µl)</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet
Supplier/Manufacturer: Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number
In case of emergency: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture
OSHA/HCS status: pISRE-Luc Plasmid
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

pCIS-CK Negative Control Plasmid
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture
Not classified.

2.2 GHS 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
Prevention:
pISRE-Luc Plasmid
Not applicable.
pCIS-CK Negative Control Plasmid
Not applicable.

Date of issue: 12/31/2017
Section 2. Hazards identification

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

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

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

<table>
<thead>
<tr>
<th>Supplemental label elements</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>

2.3 Other hazards

<table>
<thead>
<tr>
<th>Hazards not otherwise classified</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>

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>pISRE-Luc Plasmid</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>pISRE-Luc Plasmid</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</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>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>pISRE-Luc Plasmid</th>
<th>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</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>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>pISRE-Luc Plasmid</th>
<th>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>pISRE-Luc Plasmid</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</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>
Section 4. First aid measures

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Inhalation
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

Skin contact
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

Ingestion
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

Over-exposure signs/symptoms

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

Inhalation
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

Skin contact
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

Ingestion
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

Specific treatments
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

Protection of first-aiders
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

Unsuitable extinguishing media
- pISRE-Luc Plasmid
- pCIS-CK Negative Control Plasmid

5.2 Special hazards arising from the substance or mixture

Date of issue: 12/31/2017
Section 5. Fire-fighting measures

- Specific hazards arising from the chemical:
  - pISRE-Luc Plasmid: In a fire or if heated, a pressure increase will occur and the container may burst.
  - pCIS-CK Negative Control Plasmid: In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products:
  - pISRE-Luc Plasmid: No specific data.
  - pCIS-CK Negative Control Plasmid: No specific data.

5.3 Advice for firefighters

- Special protective actions for fire-fighters:
  - pISRE-Luc Plasmid: 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.
  - pCIS-CK Negative Control Plasmid: 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:
  - pISRE-Luc Plasmid: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
  - pCIS-CK Negative Control Plasmid: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel:
  - pISRE-Luc Plasmid: 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 spilled material. Put on appropriate personal protective equipment.
  - pCIS-CK Negative Control Plasmid: 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 spilled material. Put on appropriate personal protective equipment.

- For emergency responders:
  - pISRE-Luc Plasmid: If specialized 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".
  - pCIS-CK Negative Control Plasmid: If specialized 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 spilled 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 spilled 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).
Section 6. Accidental release measures

6.3 Methods and materials 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.

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

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 unlabeled 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.
Section 7. Handling and storage

7.3 Specific end use(s)

**Recommendations**

<table>
<thead>
<tr>
<th>Industrial sector specific solutions</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial applications</td>
<td>Professional applications</td>
<td></td>
</tr>
<tr>
<td>Industrial applications</td>
<td>Professional applications</td>
<td></td>
</tr>
</tbody>
</table>

**pISRE-Luc Plasmid**

Industrial applications, Professional applications.

**pCIS-CK Negative Control Plasmid**

Industrial applications, Professional applications.

Section 8. Exposure controls/personal protection

8.1 Control parameters

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls

**Appropriate engineering controls**

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

**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.

**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.
## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance**

<table>
<thead>
<tr>
<th>Property</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>pISRE-Luc Plasmid</td>
<td>pCIS-CK Negative Control Plasmid</td>
</tr>
<tr>
<td>pH</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>Melting point</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</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>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

#### 10.1 Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td></td>
</tr>
</tbody>
</table>

#### 10.2 Chemical stability

<table>
<thead>
<tr>
<th>Property</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
</tr>
</thead>
<tbody>
<tr>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td></td>
</tr>
</tbody>
</table>
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 oxidizing materials.
- pCIS-CK Negative Control Plasmid
  - May react or be incompatible with oxidizing 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.

- Irritation/Corrosion
  - Not available.

- Sensitization
  - Not available.

- Mutagenicity
  - Not available.

- Carcinogenicity
  - Not available.

- Reproductive toxicity
  - Not available.

- Teratogenicity
  - Not available.

- Specific target organ toxicity (single exposure)
  - Not available.

- Specific target organ toxicity (repeated exposure)
  - Not available.

- Aspiration hazard
  - Not available.

Date of issue: 12/31/2017
## Section 11. Toxicological information

### Information on the likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>pISRE-Luc Plasmid</th>
<th>pCIS-CK Negative Control Plasmid</th>
<th>Not available.</th>
</tr>
</thead>
</table>

### Potential acute health effects

#### Eye contact

<table>
<thead>
<tr>
<th>Pesticide</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pISRE-Luc Plasmid</td>
</tr>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
</tr>
</tbody>
</table>

#### Inhalation

<table>
<thead>
<tr>
<th>Pesticide</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pISRE-Luc Plasmid</td>
</tr>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
</tr>
</tbody>
</table>

#### Skin contact

<table>
<thead>
<tr>
<th>Pesticide</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pISRE-Luc Plasmid</td>
</tr>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
</tr>
</tbody>
</table>

#### Ingestion

<table>
<thead>
<tr>
<th>Pesticide</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pISRE-Luc Plasmid</td>
</tr>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
</tr>
</tbody>
</table>

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

#### Eye contact

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

#### Inhalation

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

#### Skin contact

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

#### Ingestion

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

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

<table>
<thead>
<tr>
<th>Effects</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential immediate</td>
<td></td>
</tr>
<tr>
<td>Potential delayed</td>
<td></td>
</tr>
</tbody>
</table>

#### Long term exposure

<table>
<thead>
<tr>
<th>Effects</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential immediate</td>
<td></td>
</tr>
<tr>
<td>Potential delayed</td>
<td></td>
</tr>
</tbody>
</table>

#### Potential chronic health effects

<table>
<thead>
<tr>
<th>Effects</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>pISRE-Luc Plasmid</td>
</tr>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Effects</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>pISRE-Luc Plasmid</td>
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<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
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</table>

<table>
<thead>
<tr>
<th>Effects</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>pISRE-Luc Plasmid</td>
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<td>pCIS-CK Negative Control Plasmid</td>
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<table>
<thead>
<tr>
<th>Effects</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Teratogenicity</td>
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</table>

<table>
<thead>
<tr>
<th>Effects</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Developmental effects</td>
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<td>pCIS-CK Negative Control Plasmid</td>
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</table>

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

### Numerical measures of toxicity

#### Acute toxicity estimates

<table>
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<tr>
<th>Pesticide</th>
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<tbody>
<tr>
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</tr>
<tr>
<td></td>
<td>pCIS-CK Negative Control Plasmid</td>
</tr>
</tbody>
</table>

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**Date of issue:** 12/31/2017
Section 12. Ecological information

12.1 Toxicity
Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil

Soil/water partition coefficient ($K_{OC}$) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Date of issue : 12/31/2017
Section 15. Regulatory information

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

U.S. Federal regulations

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed
Clean Air Act Section 602 Class I Substances : Not listed
Clean Air Act Section 602 Class II Substances : Not listed
DEA List I Chemicals (Precursor Chemicals) : Not listed
DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304
Composition/information on ingredients
No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312
Classification : pISRE-Luc Plasmid Not applicable.
Not applicable.
pCIS-CK Negative Control Plasmid Not applicable.

Composition/information on ingredients
No products were found.

State regulations
Massachusetts : None of the components are listed.
New York : None of the components are listed.
New Jersey : None of the components are listed.
Pennsylvania : None of the components are listed.

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 : All components are listed or exempted.
Canada : All components are listed or exempted.

Date of issue : 12/31/2017
Section 15. Regulatory information

China: All components are listed or exempted.

Europe: All components are listed or exempted.

Japan:
- Japan inventory (ENCS): All components are listed or exempted.
- Japan inventory (ISHL): All components are listed or exempted.

Malaysia: Not determined.

New Zealand: All components are listed or exempted.

Philippines: All components are listed or exempted.

Republic of Korea: All components are listed or exempted.

Taiwan: All components are listed or exempted.

Thailand: Not determined.

Turkey: Not determined.

United States: All components are listed or exempted.

Viet Nam: Not determined.

Section 16. Other information

History

Date of issue: 12/31/2017

Date of previous issue: 09/01/2015.

Version: 2

Indicates information that has changed from previously issued version.

Notice to reader

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