

# SAFETY DATA SHEET



PathDetect C/EBP cis Reporting System, Part Number 240111

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

### 1.1 Product identifier

<b>Product name</b>	: PathDetect C/EBP cis Reporting System, Part Number 240111		
<b>Part no. (chemical kit)</b>	: 240111		
<b>Part no.</b>	: pCIS-CK Negative Control Plasmid	219090-51	
	: pC/EBP-Luc Plasmid	240112-51	

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

<b>Material uses</b>	: Analytical reagent.		
	pCIS-CK Negative Control Plasmid	0.05 ml (50 µg	1 µg/µl)
	pC/EBP-Luc Plasmid	0.05 ml (50 µg	1 µg/µl)

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.  
 5500 Lakeside Cheadle Royal Business Park,  
 Cheadle, Cheshire, SK8 3GR  
 United Kingdom  
 Tel: +44 (0) 345 712 5292  
**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

<b>Product definition</b>	: pCIS-CK Negative Control Plasmid	Mixture
	: pC/EBP-Luc 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

<b>Signal word</b>	: pCIS-CK Negative Control Plasmid	No signal word.
	: pC/EBP-Luc Plasmid	No signal word.
<b>Hazard statements</b>	: pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
	: pC/EBP-Luc Plasmid	No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: pCIS-CK Negative Control Plasmid	Not applicable.
	: pC/EBP-Luc Plasmid	Not applicable.

## SECTION 2: Hazards identification

<b>Response</b>	: pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
<b>Storage</b>	: pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
<b>Disposal</b>	: pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
<b>Supplemental label elements</b>	: pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
<b>Special packaging requirements</b>		
<b>Tactile warning of danger</b>	: pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: pCIS-CK Negative Control Plasmid	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	pC/EBP-Luc Plasmid	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: pCIS-CK Negative Control Plasmid	None known.
	pC/EBP-Luc Plasmid	None known.

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	: pCIS-CK Negative Control Plasmid	Mixture
	pC/EBP-Luc 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.

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: 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.
	pC/EBP-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.
<b>Inhalation</b>	: pCIS-CK Negative Control Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pC/EBP-Luc Plasmid	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

<b>Skin contact</b>	: pCIS-CK Negative Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pC/EBP-Luc Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: pCIS-CK Negative Control Plasmid	Wash out mouth with water. 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.
	pC/EBP-Luc Plasmid	Wash out mouth with water. 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.
<b>Protection of first-aiders</b>	: pCIS-CK Negative Control Plasmid	No action shall be taken involving any personal risk or without suitable training.
	pC/EBP-Luc Plasmid	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

<b>Eye contact</b>	: pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
	pC/EBP-Luc Plasmid	No known significant effects or critical hazards.
<b>Inhalation</b>	: pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
	pC/EBP-Luc Plasmid	No known significant effects or critical hazards.
<b>Skin contact</b>	: pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
	pC/EBP-Luc Plasmid	No known significant effects or critical hazards.
<b>Ingestion</b>	: pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
	pC/EBP-Luc Plasmid	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: pCIS-CK Negative Control Plasmid	No specific data.
	pC/EBP-Luc Plasmid	No specific data.
<b>Inhalation</b>	: pCIS-CK Negative Control Plasmid	No specific data.
	pC/EBP-Luc Plasmid	No specific data.
<b>Skin contact</b>	: pCIS-CK Negative Control Plasmid	No specific data.
	pC/EBP-Luc Plasmid	No specific data.
<b>Ingestion</b>	: pCIS-CK Negative Control Plasmid	No specific data.
	pC/EBP-Luc Plasmid	No specific data.

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

<b>Notes to physician</b>	: pCIS-CK Negative Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pC/EBP-Luc Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: pCIS-CK Negative Control Plasmid	No specific treatment.
	pC/EBP-Luc Plasmid	No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	None known. None known.

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

<b>Hazards from the substance or mixture</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	No specific data. No specific data.

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: pCIS-CK Negative Control Plasmid  pC/EBP-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. 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.
<b>Special protective equipment for fire-fighters</b>	: pCIS-CK Negative Control Plasmid  pC/EBP-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. 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. 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

<b>For non-emergency personnel</b>	: pCIS-CK Negative Control Plasmid  pC/EBP-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 spilt material. Put on appropriate personal protective equipment. 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.
<b>For emergency responders</b>	: pCIS-CK Negative Control Plasmid  pC/EBP-Luc 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". 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

<b>6.2 Environmental precautions</b>	: 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).
	pC/EBP-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).
<b>6.3 Methods and material for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: 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.
	pC/EBP-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.
<b>6.4 Reference to other sections</b>	: 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

<b>Protective measures</b>	: pCIS-CK Negative Control Plasmid	Put on appropriate personal protective equipment (see Section 8).
	pC/EBP-Luc Plasmid	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: 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.
	pC/EBP-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.

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

<b>Storage</b>	: 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.
	pC/EBP-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

## SECTION 7: Handling and storage

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)

<b>Recommendations</b>	: pCIS-CK Negative Control Plasmid	Industrial applications, Professional applications.
	: pC/EBP-Luc Plasmid	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: pCIS-CK Negative Control Plasmid	Not available.
	: pC/EBP-Luc Plasmid	Not available.

## 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.

## SECTION 8: Exposure controls/personal protection

- 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : pCIS-CK Negative Control Plasmid Liquid.  
pC/EBP-Luc Plasmid Liquid.
- Colour** : pCIS-CK Negative Control Plasmid Not available.  
pC/EBP-Luc Plasmid Not available.
- Odour** : pCIS-CK Negative Control Plasmid Not available.  
pC/EBP-Luc Plasmid Not available.
- Odour threshold** : pCIS-CK Negative Control Plasmid Not available.  
pC/EBP-Luc Plasmid Not available.
- Melting point/freezing point** : pCIS-CK Negative Control Plasmid 0°C  
pC/EBP-Luc Plasmid 0°C
- Initial boiling point and boiling range** : pCIS-CK Negative Control Plasmid 100°C (212°F)  
pC/EBP-Luc Plasmid 100°C (212°F)
- Flammability (solid, gas)** : pCIS-CK Negative Control Plasmid Not applicable.  
pC/EBP-Luc Plasmid Not applicable.
- Upper/lower flammability or explosive limits** : pCIS-CK Negative Control Plasmid Not available.  
pC/EBP-Luc Plasmid Not available.

#### Flash point

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
pCIS-CK Negative Control Plasmid						
Edetic acid	>100	>212	DIN 51758			
pC/EBP-Luc Plasmid						
Edetic acid	>100	>212	DIN 51758			

#### Auto-ignition temperature

:

## SECTION 9: Physical and chemical properties

Ingredient name	°C	°F	Method
<b>pCIS-CK Negative Control Plasmid</b> Edetic acid	>400	>752	VDI 2263
<b>pC/EBP-Luc Plasmid</b> Edetic acid	>400	>752	VDI 2263

<b>Decomposition temperature</b>	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.
<b>pH</b>	:	pCIS-CK Negative Control Plasmid	7.5
		pC/EBP-Luc Plasmid	7.5
<b>Viscosity</b>	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.
<b>Solubility(ies)</b>	:	pCIS-CK Negative Control Plasmid	Easily soluble in the following materials: cold water and hot water.
		pC/EBP-Luc Plasmid	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	:	pCIS-CK Negative Control Plasmid	Not applicable.
		pC/EBP-Luc Plasmid	Not applicable.

<b>Vapour pressure</b>	:		<b>Vapour Pressure at 20°C</b>			<b>Vapour pressure at 50°C</b>		
		<b>Ingredient name</b>	<b>mm Hg</b>	<b>kPa</b>	<b>Method</b>	<b>mm Hg</b>	<b>kPa</b>	<b>Method</b>
		<b>pCIS-CK Negative Control Plasmid</b>						
		water	23.8	3.2		92.258	12.3	
		2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
		<b>pC/EBP-Luc Plasmid</b>						
		water	23.8	3.2		92.258	12.3	
		2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	

<b>Evaporation rate</b>	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.
<b>Relative density</b>	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.
<b>Vapour density</b>	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.
<b>Oxidising properties</b>	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.

### Particle characteristics

<b>Median particle size</b>	:	pCIS-CK Negative Control Plasmid	Not applicable.
		pC/EBP-Luc Plasmid	Not applicable.

### 9.2 Other information



## SECTION 9: Physical and chemical properties

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: pCIS-CK Negative Control Plasmid pC/EBP-Luc Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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

N/A

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

**SECTION 11: Toxicological information****Aspiration hazard**

Not available.

**Information on likely routes of exposure** : pCIS-CK Negative Control Plasmid Not available.  
pC/EBP-Luc Plasmid Not available.

**Potential acute health effects**

**Inhalation** : pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.  
pC/EBP-Luc Plasmid No known significant effects or critical hazards.

**Ingestion** : pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.  
pC/EBP-Luc Plasmid No known significant effects or critical hazards.

**Skin contact** : pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.  
pC/EBP-Luc Plasmid No known significant effects or critical hazards.

**Eye contact** : pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.  
pC/EBP-Luc Plasmid No known significant effects or critical hazards.

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

**Inhalation** : pCIS-CK Negative Control Plasmid No specific data.  
pC/EBP-Luc Plasmid No specific data.

**Ingestion** : pCIS-CK Negative Control Plasmid No specific data.  
pC/EBP-Luc Plasmid No specific data.

**Skin contact** : pCIS-CK Negative Control Plasmid No specific data.  
pC/EBP-Luc Plasmid No specific data.

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

**Carcinogenicity** : pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.  
pC/EBP-Luc Plasmid No known significant effects or critical hazards.

**Mutagenicity** : pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.  
pC/EBP-Luc Plasmid No known significant effects or critical hazards.

**Reproductive toxicity** : pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.  
pC/EBP-Luc 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.

### 12.4 Mobility in soil

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

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**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

	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing group</b>	-	-	-

## SECTION 14: Transport information

<b>14.5 Environmental hazards</b>	No.	No.	No.
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### Additional 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 IMO instruments** : 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

<b>Label</b>	:	pCIS-CK Negative Control Plasmid	Not applicable.
		pC/EBP-Luc Plasmid	Not applicable.

#### Other EU regulations

##### Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

##### Persistent Organic Pollutants

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

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.

## SECTION 15: Regulatory information

<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: <input checked="" type="checkbox"/> All components are active or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>15.2 Chemical safety assessment</b>	: 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.

<b>Abbreviations and acronyms</b>	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

### Full text of abbreviated H statements

Not applicable.

### Full text of classifications [CLP/GHS]

Not applicable.

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### Notice to reader

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