

SAFETY DATA SHEET



PathDetect CREB trans Reporting System, Part Number 219010

Section 1. Identification

Product identifier	: PathDetect CREB trans Reporting System, Part Number 219010		
Part No. (Chemical Kit)	: 219010		
Part No.	: pFR-Luc Plasmid (Reporter Plasmid)	219050-51	
	: pFA2-CREB Plasmid	219067-51	
	: pFC2-dbd	219055-51	
	: pFC-PKA Plasmid	219070-51	

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

Analytical reagent.

pFR-Luc Plasmid (Reporter Plasmid)	0.05 ml (50 µg	1 µg/µl)
pFA2-CREB Plasmid	0.05 ml (5 µg	25 ng/µl)
pFC2-dbd	0.02 ml (2 µg	25 ng/µl)
pFC-PKA Plasmid	0.05 ml (5 µg	25 ng/µl)

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word	: pFR-Luc Plasmid (Reporter Plasmid)	No signal word.
	: pFA2-CREB Plasmid	No signal word.
	: pFC2-dbd	No signal word.
	: pFC-PKA Plasmid	No signal word.
Hazard statements	: pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
	: pFA2-CREB Plasmid	No known significant effects or critical hazards.
	: pFC2-dbd	No known significant effects or critical hazards.
	: pFC-PKA Plasmid	No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: pFR-Luc Plasmid (Reporter Plasmid)	Not applicable.
	: pFA2-CREB Plasmid	Not applicable.
	: pFC2-dbd	Not applicable.
	: pFC-PKA Plasmid	Not applicable.
Response	: pFR-Luc Plasmid (Reporter Plasmid)	Not applicable.
	: pFA2-CREB Plasmid	Not applicable.
	: pFC2-dbd	Not applicable.
	: pFC-PKA Plasmid	Not applicable.

Section 2. Hazard(s) identification

Storage	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements		
Additional warning phrases	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Not applicable. Not applicable. Not applicable. Not applicable.
Other hazards which do not result in classification	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	None known. None known. None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Mixture Mixture Mixture Mixture
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CAS number/other identifiers

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

Description of necessary first aid measures

Eye contact	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA 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. 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. 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. 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.
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Section 4. First aid measures

Inhalation	:	pFR-Luc Plasmid (Reporter Plasmid)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		pFA2-CREB Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		pFC2-dbd	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		pFC-PKA Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	pFR-Luc Plasmid (Reporter Plasmid)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pFA2-CREB Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pFC2-dbd	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pFC-PKA Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	pFR-Luc Plasmid (Reporter Plasmid)	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.
		pFA2-CREB Plasmid	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.
		pFC2-dbd	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.
		pFC-PKA Plasmid	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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
		pFA2-CREB Plasmid	No known significant effects or critical hazards.
		pFC2-dbd	No known significant effects or critical hazards.
		pFC-PKA Plasmid	No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation	: pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
	pFA2-CREB Plasmid	No known significant effects or critical hazards.
	pFC2-dbd	No known significant effects or critical hazards.
	pFC-PKA Plasmid	No known significant effects or critical hazards.
Skin contact	: pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
	pFA2-CREB Plasmid	No known significant effects or critical hazards.
	pFC2-dbd	No known significant effects or critical hazards.
	pFC-PKA Plasmid	No known significant effects or critical hazards.
Ingestion	: pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
	pFA2-CREB Plasmid	No known significant effects or critical hazards.
	pFC2-dbd	No known significant effects or critical hazards.
	pFC-PKA Plasmid	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: pFR-Luc Plasmid (Reporter Plasmid)	No specific data.
	pFA2-CREB Plasmid	No specific data.
	pFC2-dbd	No specific data.
	pFC-PKA Plasmid	No specific data.
Inhalation	: pFR-Luc Plasmid (Reporter Plasmid)	No specific data.
	pFA2-CREB Plasmid	No specific data.
	pFC2-dbd	No specific data.
	pFC-PKA Plasmid	No specific data.
Skin contact	: pFR-Luc Plasmid (Reporter Plasmid)	No specific data.
	pFA2-CREB Plasmid	No specific data.
	pFC2-dbd	No specific data.
	pFC-PKA Plasmid	No specific data.
Ingestion	: pFR-Luc Plasmid (Reporter Plasmid)	No specific data.
	pFA2-CREB Plasmid	No specific data.
	pFC2-dbd	No specific data.
	pFC-PKA Plasmid	No specific data.

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

Notes to physician	: pFR-Luc Plasmid (Reporter Plasmid)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pFA2-CREB Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pFC2-dbd	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pFC-PKA Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pFR-Luc Plasmid (Reporter Plasmid)	No specific treatment.
	pFA2-CREB Plasmid	No specific treatment.
	pFC2-dbd	No specific treatment.
	pFC-PKA Plasmid	No specific treatment.

Section 4. First aid measures

Protection of first-aiders	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.
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See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	None known. None known. None known. None known.

Specific hazards arising from the chemical

: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA 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. 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.
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Hazardous thermal decomposition products

: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No specific data. No specific data. No specific data. No specific data.
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Special protective actions for fire-fighters

: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA 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. 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.
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Section 5. Firefighting measures

Special protective equipment for fire-fighters	: pFR-Luc Plasmid (Reporter Plasmid)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pFA2-CREB Plasmid	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pFC2-dbd	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pFC-PKA 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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: pFR-Luc Plasmid (Reporter 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.
	pFA2-CREB 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.
	pFC2-dbd	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.
	pFC-PKA 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.
For emergency responders	: pFR-Luc Plasmid (Reporter 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".
	pFA2-CREB 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".
	pFC2-dbd	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".
	pFC-PKA 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".

Section 6. Accidental release measures

Environmental precautions	: pFR-Luc Plasmid (Reporter 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).
	pFA2-CREB 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).
	pFC2-dbd	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).
	pFC-PKA 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).

Methods and material for containment and cleaning up

Methods for cleaning up	: pFR-Luc Plasmid (Reporter 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.
	pFA2-CREB 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.
	pFC2-dbd	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.
	pFC-PKA 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

Precautions for safe handling

Protective measures	: pFR-Luc Plasmid (Reporter Plasmid)	Put on appropriate personal protective equipment (see Section 8).
	pFA2-CREB Plasmid	Put on appropriate personal protective equipment (see Section 8).
	pFC2-dbd	Put on appropriate personal protective equipment (see Section 8).
	pFC-PKA Plasmid	Put on appropriate personal protective equipment (see Section 8).

Section 7. Handling and storage

Advice on general occupational hygiene

: pFR-Luc Plasmid (Reporter 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.
pFA2-CREB 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.
pFC2-dbd	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.
pFC-PKA 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.

Conditions for safe storage, including any incompatibilities

: pFR-Luc Plasmid (Reporter 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.
pFA2-CREB 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.
pFC2-dbd	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.
pFC-PKA Plasmid	Store in accordance with local regulations. Store in

Section 7. Handling and storage

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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None.

- 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

Appearance

- Physical state** :
- | | |
|------------------------------------|---------|
| pFR-Luc Plasmid (Reporter Plasmid) | Liquid. |
| pFA2-CREB Plasmid | Liquid. |
| pFC2-dbd | Liquid. |
| pFC-PKA Plasmid | Liquid. |

Section 9. Physical and chemical properties

Colour	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.
Odour	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.
Odour threshold	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.
pH	: pFR-Luc Plasmid (Reporter Plasmid)	7.5
	pFA2-CREB Plasmid	7.5
	pFC2-dbd	7.5
	pFC-PKA Plasmid	7.5
Melting point	: pFR-Luc Plasmid (Reporter Plasmid)	0°C (32°F)
	pFA2-CREB Plasmid	0°C (32°F)
	pFC2-dbd	0°C (32°F)
	pFC-PKA Plasmid	0°C (32°F)
Boiling point	: pFR-Luc Plasmid (Reporter Plasmid)	100°C (212°F)
	pFA2-CREB Plasmid	100°C (212°F)
	pFC2-dbd	100°C (212°F)
	pFC-PKA Plasmid	100°C (212°F)
Flash point	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.
Evaporation rate	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.
Flammability (solid, gas)	: pFR-Luc Plasmid (Reporter Plasmid)	Not applicable.
	pFA2-CREB Plasmid	Not applicable.
	pFC2-dbd	Not applicable.
	pFC-PKA Plasmid	Not applicable.
Lower and upper explosive (flammable) limits	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.
Vapour pressure	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.
Vapour density	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.

Section 9. Physical and chemical properties

Relative density	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Not available. Not available. Not available. Not available.
Solubility	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Not available. Not available. Not available. Not available.
Auto-ignition temperature	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Not available. Not available. Not available. Not available.
Decomposition temperature	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Not available. Not available. Not available. Not available.
Viscosity	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	Not available. Not available. Not available. Not available.

Section 10. Stability and reactivity

Reactivity	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA 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. 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.
Chemical stability	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	The product is stable. The product is stable. The product is stable. The product is stable.
Possibility of hazardous reactions	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA 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. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

Conditions to avoid	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No specific data. No specific data. No specific data. No specific data.
Incompatible materials	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
Hazardous decomposition products	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA 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. 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

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitisation

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.

Section 11. Toxicological information

Information on likely routes of exposure	: pFR-Luc Plasmid (Reporter Plasmid)	Not available.
	pFA2-CREB Plasmid	Not available.
	pFC2-dbd	Not available.
	pFC-PKA Plasmid	Not available.
<u>Potential acute health effects</u>		
Eye contact	: pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
	pFA2-CREB Plasmid	No known significant effects or critical hazards.
	pFC2-dbd	No known significant effects or critical hazards.
	pFC-PKA Plasmid	No known significant effects or critical hazards.
Inhalation	: pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
	pFA2-CREB Plasmid	No known significant effects or critical hazards.
	pFC2-dbd	No known significant effects or critical hazards.
	pFC-PKA Plasmid	No known significant effects or critical hazards.
Skin contact	: pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
	pFA2-CREB Plasmid	No known significant effects or critical hazards.
	pFC2-dbd	No known significant effects or critical hazards.
	pFC-PKA Plasmid	No known significant effects or critical hazards.
Ingestion	: pFR-Luc Plasmid (Reporter Plasmid)	No known significant effects or critical hazards.
	pFA2-CREB Plasmid	No known significant effects or critical hazards.
	pFC2-dbd	No known significant effects or critical hazards.
	pFC-PKA Plasmid	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: pFR-Luc Plasmid (Reporter Plasmid)	No specific data.
	pFA2-CREB Plasmid	No specific data.
	pFC2-dbd	No specific data.
	pFC-PKA Plasmid	No specific data.
Inhalation	: pFR-Luc Plasmid (Reporter Plasmid)	No specific data.
	pFA2-CREB Plasmid	No specific data.
	pFC2-dbd	No specific data.
	pFC-PKA Plasmid	No specific data.
Skin contact	: pFR-Luc Plasmid (Reporter Plasmid)	No specific data.
	pFA2-CREB Plasmid	No specific data.
	pFC2-dbd	No specific data.
	pFC-PKA Plasmid	No specific data.
Ingestion	: pFR-Luc Plasmid (Reporter Plasmid)	No specific data.
	pFA2-CREB Plasmid	No specific data.
	pFC2-dbd	No specific data.
	pFC-PKA 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.

Section 11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: pFR-Luc Plasmid (Reporter Plasmid) pFA2-CREB Plasmid pFC2-dbd pFC-PKA Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

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

Section 12. Ecological information

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

Section 13. Disposal considerations

Disposal methods : 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : **Japan inventory (ENCS):** Not determined.
Japan inventory (ISHL): All components are listed or exempted.
Malaysia : Not determined.

Section 15. Regulatory information

New Zealand	: <input checked="" type="checkbox"/> Not determined.
Philippines	: <input checked="" type="checkbox"/> Not determined.
Republic of Korea	: <input checked="" type="checkbox"/> Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision	: 31/12/2017
Date of previous issue	: 30/09/2015.
Version	: 2.02

Key to abbreviations

: ADG = Australian Dangerous Goods
: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: NOHSC = National Occupational Health and Safety Commission
: SUSMP = Standard Uniform Schedule of Medicine and Poisons
: UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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