

SAFETY DATA SHEET



PathDetect pFA-CMV Plasmid, Part Number 219036

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

1.1 Product identifier

Product name : PathDetect pFA-CMV Plasmid, Part Number 219036
Part no. (chemical kit) : 219036
Part no. : pFA-CMV Vector 219036-51
(Fusion Trans-activator Plasmid)
XL1-Blue MRF' E.coli 200301-81 Strain

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

Material uses : Analytical reagent.
pFA-CMV Vector (Fusion Trans-activator Plasmid) 0.01 ml (20 µg 1 µg/µl)
XL1-Blue MRF' E. coli Strain 0.5 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : pFA-CMV Vector Mixture
(Fusion Trans-activator Plasmid)
XL1-Blue MRF' E.coli Mixture
Strain

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Ingredients of unknown toxicity : XL1-Blue MRF' E.coli Strain Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%

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

Date of issue/Date of revision : 23/08/2018

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SECTION 2: Hazards identification

Signal word	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No signal word. No signal word.
Hazard statements	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not applicable. Not applicable.
Response	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not applicable. Not applicable.
Storage	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not applicable. Not applicable.
Disposal	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not applicable. Not applicable.
Hazardous ingredients	: XL1-Blue MRF' E.coli Strain	Not applicable.
Supplemental label elements	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not applicable. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not applicable. Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not applicable. Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	None known. None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances : pFA-CMV Vector (Fusion Trans-activator Plasmid) Mixture
 XL1-Blue MRF' E.coli Strain Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
XL1-Blue MRF' E.coli Strain	REACH #: Annex V	≥10 - ≤25	Not classified.	[2]
Glycerol	EC: 200-289-5 CAS: 56-81-5			
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
See Section 16 for the full text of the H statements declared above.				

There are no additional 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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	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.
Inhalation	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	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. 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.

SECTION 4: First aid measures

Protection of first-aiders	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	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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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No specific data. No specific data.
Inhalation	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No specific data. No specific data.
Skin contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No specific data. No specific data.
Ingestion	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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SECTION 4: First aid measures

Specific treatments	: pFA-CMV Vector (Fusion Trans-activator Plasmid)	No specific treatment.
	XL1-Blue MRF' E.coli Strain	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: pFA-CMV Vector (Fusion Trans-activator Plasmid)	Use an extinguishing agent suitable for the surrounding fire.
	XL1-Blue MRF' E.coli Strain	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: pFA-CMV Vector (Fusion Trans-activator Plasmid)	None known.
	XL1-Blue MRF' E.coli Strain	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: pFA-CMV Vector (Fusion Trans-activator Plasmid)	In a fire or if heated, a pressure increase will occur and the container may burst.
	XL1-Blue MRF' E.coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: pFA-CMV Vector (Fusion Trans-activator Plasmid)	No specific data.
	XL1-Blue MRF' E.coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters	: pFA-CMV Vector (Fusion Trans-activator 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.
	XL1-Blue MRF' E.coli Strain	
Special protective equipment for fire-fighters	: pFA-CMV Vector (Fusion Trans-activator 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.
	XL1-Blue MRF' E.coli Strain	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: pFA-CMV Vector (Fusion Trans-activator 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.
	XL1-Blue MRF' E.coli Strain	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	: pFA-CMV Vector (Fusion Trans-activator 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".
	XL1-Blue MRF' E.coli Strain	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: pFA-CMV Vector (Fusion Trans-activator 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).
XL1-Blue MRF' E.coli Strain	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: pFA-CMV Vector (Fusion Trans-activator 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.
	XL1-Blue MRF' E.coli Strain	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: pFA-CMV Vector (Fusion Trans-activator Plasmid)	Put on appropriate personal protective equipment (see Section 8).
	XL1-Blue MRF' E.coli Strain	Put on appropriate personal protective equipment (see Section 8).

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SECTION 7: Handling and storage

Advice on general occupational hygiene	: pFA-CMV Vector (Fusion Trans-activator 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. Potentially biohazardous material. 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.
	XL1-Blue MRF' E.coli Strain	

7.2 Conditions for safe storage, including any incompatibilities

Storage	: pFA-CMV Vector (Fusion Trans-activator 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. 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.
	XL1-Blue MRF' E.coli Strain	

7.3 Specific end use(s)

Recommendations	: pFA-CMV Vector (Fusion Trans-activator Plasmid)	Industrial applications, Professional applications.
	XL1-Blue MRF' E.coli Strain	Industrial applications, Professional applications.
Industrial sector specific solutions	: pFA-CMV Vector (Fusion Trans-activator Plasmid)	Not applicable.
	XL1-Blue MRF' E.coli Strain	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
XL1-Blue MRF' E.coli Strain Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

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SECTION 8: Exposure controls/personal protection

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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

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 : Handle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : pFA-CMV Vector Liquid.
(Fusion Trans-activator Plasmid)
XL1-Blue MRF' E.coli Liquid.
Strain

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SECTION 9: Physical and chemical properties

Colour	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Odour	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Odour threshold	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
pH	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	7.5 7
Melting point/freezing point	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	0°C Not available.
Initial boiling point and boiling range	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	100°C Not available.
Flash point	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Evaporation rate	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Flammability (solid, gas)	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not applicable. Not applicable.
Upper/lower flammability or explosive limits	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Vapour pressure	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.

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SECTION 9: Physical and chemical properties

Vapour density	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Relative density	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Solubility(ies)	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Auto-ignition temperature	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Decomposition temperature	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Viscosity	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Explosive properties	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.
Oxidising properties	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	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.
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SECTION 10: Stability and reactivity

10.2 Chemical stability	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No specific data. No specific data.
10.5 Incompatible materials	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	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

Product/ingredient name	Result	Species	Dose	Exposure
XL1-Blue MRF' E.coli Strain Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
XL1-Blue MRF' E.coli Strain Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Date of issue/Date of revision : 23/08/2018

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SECTION 11: Toxicological information

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.

Aspiration hazard

Not available.

Information on likely routes of exposure

Information on likely routes of exposure :	pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	Not available. Routes of entry anticipated: Oral, Dermal, Inhalation.
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Potential acute health effects

Inhalation	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No specific data. No specific data.
Ingestion	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No specific data. No specific data.
Skin contact	: pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain	No specific data. No specific data.

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Eye contact : pFA-CMV Vector (Fusion Trans-activator Plasmid) No specific data.
XL1-Blue MRF' E.coli Strain 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 : pFA-CMV Vector (Fusion Trans-activator Plasmid) No known significant effects or critical hazards.
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

Carcinogenicity : pFA-CMV Vector (Fusion Trans-activator Plasmid) No known significant effects or critical hazards.
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

Mutagenicity : pFA-CMV Vector (Fusion Trans-activator Plasmid) No known significant effects or critical hazards.
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

Teratogenicity : pFA-CMV Vector (Fusion Trans-activator Plasmid) No known significant effects or critical hazards.
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

Developmental effects : pFA-CMV Vector (Fusion Trans-activator Plasmid) No known significant effects or critical hazards.
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

Fertility effects : pFA-CMV Vector (Fusion Trans-activator Plasmid) No known significant effects or critical hazards.
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
X L1-Blue MRF' E.coli Strain Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks	

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.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

Packaging

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

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

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SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : pFA-CMV Vector (Fusion Trans-activator Plasmid) Not applicable.
XL1-Blue MRF⁺ E.coli Strain Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.
Canada : All components are listed or exempted.
China : All components are listed or exempted.
Europe : All components are listed or exempted.

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

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

<input checked="" type="checkbox"/> L1-Blue MRF' E.coli Strain H319	Causes serious eye irritation.
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Full text of classifications [CLP/GHS]

<input checked="" type="checkbox"/> L1-Blue MRF' E.coli Strain Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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Date of issue/ Date of revision : 23/08/2018

Date of previous issue : 30/08/2016

Version : 2

Notice to reader

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