SAFETY DATA SHEET



PathDetect pFA-CMV Plasmid, Part Number 219036

Section 1. Identification

Product identifier : PathDetect pFA-CMV Plasmid, Part Number 219036

Part no. (chemical kit) : 219036

Part no. : pFA-CMV Vector (Fusion Trans-activator 219036-51

Plasmid)

XL1-Blue MRF' E.coli Strain 200301-81

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

Identified uses : Analytical reagent.

pFA-CMV Vector (Fusion Trans-activator 0.01 ml (20 μg 1 μg/μl)

Plasmid)

XL1-Blue MRF' E.coli Strain 0.5 ml

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

XL1-Blue MRF' E.coli Strain

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

GHS label elements

Signal word : pFA-CMV Vector (Fusion No signal word.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain WARNING

Hazard statements : pFA-CMV Vector (Fusion No known significant effects or critical hazards.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain H320 - Causes eye irritation.

Precautionary statements

Prevention: pFA-CMV Vector (Fusion Not applicable.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Not applicable.

Response : pFA-CMV Vector (Fusion Not applicable.

Trans-activator Plasmid)
XL1-Blue MRF' E.coli Strain

XL1-Blue MRF' E.coli Strain P305 + P351 + P338 - IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Storage : pFA-CMV Vector (Fusion Not applicable.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Not applicable.

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Section 2. Hazard(s) identification

Disposal : pFA-CMV Vector (Fusion Not applicable.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Not applicable.

Supplemental label elements

Additional warning : pFA-CMV Vector (Fusion Not applicable. Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Not applicable.

Other hazards which do not

result in classification Trans-activa

: pFA-CMV Vector (Fusion None known.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain None known.

Section 3. Composition and ingredient information

Substance/mixture : pFA-CMV Vector (Fusion Mixture

Trans-activator Plasmid)
XL1-Blue MRF' E.coli Strain Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
L1-Blue MRF' E.coli Strain		
Glycerol	≥10 - ≤30	56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: pFA-CMV Vector (Fusion Immediately flush eyes with plenty of water,

Trans-activator Plasmid) occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

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. Continue

to rinse for at least 10 minutes. If irritation persists, get medical attention.

Inhalation : pFA-CMV Vector (Fusion Remove victim to fresh air and keep at rest in a

Trans-activator Plasmid) position comfortable for breathing. Get medical

attention if symptoms occur.

XL1-Blue MRF' E.coli Strain Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist

or are severe. If unconscious, place in recovery position and get medical attention immediately.

Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

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Section 4. First aid measures

Skin contact

: pFA-CMV Vector (Fusion

Trans-activator Plasmid)

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

XL1-Blue MRF' E.coli Strain

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: pFA-CMV Vector (Fusion Trans-activator 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

XL1-Blue MRF' E.coli Strain

personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

: pFA-CMV Vector (Fusion Eye contact

Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

Inhalation : pFA-CMV Vector (Fusion

Trans-activator Plasmid)

No known significant effects or critical hazards.

Skin contact

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

No known significant effects or critical hazards. No known significant effects or critical hazards.

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

No known significant effects or critical hazards. No known significant effects or critical hazards.

XL1-Blue MRF' E.coli Strain

No known significant effects or critical hazards.

Over-exposure signs/symptoms

: pFA-CMV Vector (Fusion Eye contact

Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain No specific data.

Causes eye irritation.

Adverse symptoms may include the following:

irritation watering redness

Inhalation : pFA-CMV Vector (Fusion

Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain No specific data.

Skin contact : pFA-CMV Vector (Fusion

Trans-activator Plasmid)

No specific data. No specific data.

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.

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

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Section 4. First aid measures

Notes to physician : pFA-CMV Vector (Fusion Treat symptomatically. Contact poison treatment Trans-activator Plasmid) specialist immediately if large quantities have been ingested or inhaled. XL1-Blue MRF' E.coli Strain Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments : pFA-CMV Vector (Fusion No specific treatment.

Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain : pFA-CMV Vector (Fusion **Protection of first-aiders**

> Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain

No action shall be taken involving any personal risk

or without suitable training.

No specific treatment.

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing : pFA-CMV Vector (Fusion Use an extinguishing agent suitable for the Trans-activator Plasmid) surrounding fire. media XL1-Blue MRF' E.coli Strain Use an extinguishing agent suitable for the surrounding fire.

: pFA-CMV Vector (Fusion **Unsuitable extinguishing** None known. Trans-activator Plasmid) media

XL1-Blue MRF' E.coli Strain None known.

Specific hazards arising : pFA-CMV Vector (Fusion In a fire or if heated, a pressure increase will occur from the chemical Trans-activator Plasmid) 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 thermal : pFA-CMV Vector (Fusion No specific data.

Trans-activator Plasmid) decomposition products XL1-Blue MRF' E.coli Strain Decomposition products may include the following

materials: carbon dioxide carbon monoxide halogenated compounds

metal oxide/oxides

Special protective actions : pFA-CMV Vector (Fusion Promptly isolate the scene by removing all persons Trans-activator Plasmid) from the vicinity of the incident if there is a fire. No for fire-fighters action shall be taken involving any personal risk or without suitable training.

> XL1-Blue MRF' E.coli Strain 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.

: pFA-CMV Vector (Fusion **Special protective** Trans-activator Plasmid) equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

XL1-Blue MRF' E.coli Strain Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : pFA-CMV Vector (Fusion

Trans-activator Plasmid)

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

If specialised clothing is required to deal with the

XL1-Blue MRF' E.coli Strain

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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,

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).

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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

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

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not

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Section 7. Handling and storage

Advice on general occupational hygiene

: pFA-CMV Vector (Fusion Trans-activator Plasmid)

reuse container.

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

Conditions for safe storage, : pFA-CMV Vector (Fusion including any incompatibilities

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain

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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
XL1-Blue MRF' E.coli Strain Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

Environmental exposure controls

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

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Section 8. Exposure controls and personal protection

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.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state : pFA-CMV Vector (Fusion Liquid.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Liquid.

Colour : pFA-CMV Vector (Fusion Not available.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Not available.

Odour : pFA-CMV Vector (Fusion Not available.

Trans-activator Plasmid)
XL1-Blue MRF' E.coli Strain

XL1-Blue MRF' E.coli Strain Not available.

Odour threshold : pFA-CMV Vector (Fusion Not available.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Not available.

pH : pFA-CMV Vector (Fusion 7.5

Trans-activator Plasmid)
XL1-Blue MRF' E.coli Strain 7

Melting point/freezing point : pFA-CMV Vector (Fusion 0°C (32°F)

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Not available.pFA-CMV Vector (Fusion 100°C (212°F)

Boiling point, initial boiling: pFA-CMV V point, and boiling range Trans-active

Trans-activator Plasmid)
XL1-Blue MRF' E.coli Strain Not available.

Flash point :

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Section 9. Physical and chemical properties and safety characteristics

				Closed cup		Open cup		
		Ingredient name	°C	°F	Method	°C	°F	Method
		KL1-Blue MRF' E. coli Strain						
		Glycerol	-	-	-	177	350.6	-
Evaporation rate	:	pFA-CMV Vector (Fu Trans-activator Plasr XL1-Blue MRF' E.col	nid)	Not avai				
Flammability	:	pFA-CMV Vector (Fu Trans-activator Plasr XL1-Blue MRF' E.col	nid)	Not appl				
ower and upper explosion imit/flammability limit	:	pFA-CMV Vector (Fu Trans-activator Plasr XL1-Blue MRF' E.col	nid)	Not avail				
/apour pressure	:		Vapou	ır Pressu	ire at 20°C	Vapo	ur press	ure at 50°0
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		pFA-CMV Vector (Fusion Trans- activator Plasmid)						
		water	17.5	2.3	-	92.258	12.3	-
		XL1-Blue MRF' E. coli Strain						
		water	17.5	2.3	-	92.258	12.3	-
		Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Relative vapour density	:	pFA-CMV Vector (Fu Trans-activator Plasr XL1-Blue MRF' E.col	nid)	Not avai		1	1	
Relative density	:	pFA-CMV Vector (Fu Trans-activator Plasr XL1-Blue MRF' E.col	nid)	Not avail				
Solubility(ies)		Media	1 Ottail1	INOL avail	Result			
		pFA-CMV Vector (F activator Plasmid) water XL1-Blue MRF' E.co		ans-	Soluble			
		water			Soluble			
Partition coefficient: n- octanol/water	:	FA-CMV Vector (Fu Trans-activator Plasr XL1-Blue MRF' E.col	nid)	Not appl				
Auto-ignition temperature	:	Ingredient name		°C	°F	M	ethod	
		XL1-Blue MRF' E.c	oli Strain					
		Glycerol		370	698	-		
Decomposition temperature	:	pFA-CMV Vector (Fu Trans-activator Plasr XL1-Blue MRF' E.col	nid)	Not avai		1		

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Section 9. Physical and chemical properties and safety characteristics

Viscosity : pFA-CMV Vector (Fusion Trans-activator Plasmid)

Not available.

Particle characteristics

Median particle size

FA-CMV Vector (Fusion Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain

XL1-Blue MRF' E.coli Strain

Not applicable.

Not available.

Not applicable.

Section 10. Stability and reactivity

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.

Chemical stability

pFA-CMV Vector (Fusion Trans-activator Plasmid) XL1-Blue MRF' E.coli Strain The product is stable.

The product is stable.

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.

Conditions to avoid

: pFA-CMV Vector (Fusion Trans-activator Plasmid)

No specific data.

XL1-Blue MRF' E.coli Strain

No specific data.

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.

Hazardous decomposition

products

pFA-CMV Vector (Fusion Trans-activator Plasmid)

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

XL1-Blue MRF' E.coli Strain

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
XL1-Blue MRF' E.coli				
Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
XL1-Blue MRF' E.coli Strain					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitisation

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Section 11. Toxicological information

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.

Aspiration hazard

Not available.

Information on likely routes

of exposure

pFA-CMV Vector (Fusion Trans-activator Plasmid) Not available.

XL1-Blue MRF' E.coli Strain

Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Potential acute health effects

Eye contact : pFA-CMV Vector (Fusion No known significant effects or critical hazards.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Causes eye irritation.

Inhalation : pFA-CMV Vector (Fusion No known significant effects or critical hazards.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards. pFA-CMV Vector (Fusion No known significant effects or critical hazards.

Skin contact : pFA-CMV Vector (Fusion Trans-activator Plasmid)

Trans-activator Plasmid)
XL1-Blue MRF' E.coli Strain

No known significant effects or critical hazards.

Ingestion : pFA-CMV Vector (Fusion No known significant effects or critical hazards.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : pFA-CMV Vector (Fusion No specific data.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain Adverse symptoms may include the following:

irritation watering redness

Inhalation : pFA-CMV Vector (Fusion No specific data.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain No specific data.

Skin contact : pFA-CMV Vector (Fusion No specific data.

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain No specific data. pFA-CMV Vector (Fusion No specific data.

Ingestion : pFA-CMV Vector (Fusion No Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain No specific data.

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u>

Short term exposure

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Section 11. Toxicological information

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : pFA-CMV Vector (Fusion

Trans-activator Plasmid)

XL1-Blue MRF' E.coli Strain

Carcinogenicity : pFA-CMV Vector (Fusion

Trans-activator Plasmid)
XL1-Blue MRF' E.coli Strain

Mutagenicity : pFA-CMV Vector (Fusion
Trans activator Plasmid)

Trans-activator Plasmid)
XL1-Blue MRF' E.coli Strain

Reproductive toxicity : 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. 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.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)		Inhalation (dusts and mists) (mg/l)
XL1-Blue MRF' E.coli Strain Glycerol	12600	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
X L1-Blue MRF' E.coli Strain			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
XL1-Blue MRF' E.coli Strain			
Glycerol	-1.76	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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 : Not available. to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines 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

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.

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Section 15. Regulatory information

Inventory list

Australia : All components are listed or exempted.

New Zealand : All components are listed or exempted.

United States : All components are active or exempted.

Section 16. Any other relevant information

History

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revision

: 29/11/2023

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Key to abbreviations

: ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road 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)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

Classification	Justification
X L1-Blue MRF' E.coli Strain	
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method

[▼] Indicates information that has changed from previously issued version.

Notice to reader

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