# SAFETY DATA SHEET



PathDetect pFA-CMV Plasmid, Part Number 219036

# **Section 1. Identification**

**1.1 Product identifier** 

Product name : 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

Validation date : 11/29/2023

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

Identified uses : Knalytical 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

1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer**: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

# Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : pFA-CMV Vector (Fusion While this material is not considered hazardous by the Trans-activator Plasmid) OSHA Hazard Communication Standard (29 CFR

1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

XL1-Blue MRF' E.coli Strain This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

**X**L1-Blue MRF' E.coli Strain

H320 EYE IRRITATION - Category 2B

2.2 GHS label elements

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

activator Plasmid)

XL1-Blue MRF' E.coli Strain Warning

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

activator Plasmid)

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

**Precautionary statements** 

Prevention : pFA-CMV Vector (Fusion Trans- Not applicable.

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

Date of issue: 11/29/2023 1/16

## Section 2. Hazards identification

Response : pFA-CMV Vector (Fusion Trans- Not applicable.

activator Plasmid)

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.

None known.

Storage : pFA-CMV Vector (Fusion Trans- Not applicable.

activator Plasmid)

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

Disposal : pFA-CMV Vector (Fusion Trans- Not applicable.

activator Plasmid)

XL1-Blue MRF' E.coli Strain Not applicable.pFA-CMV Vector (Fusion Trans-None known.

Supplemental label : pFA-CMV Vector (Fusio elements activator Plasmid)

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

2.3 Other hazards

**Hazards not otherwise** : pFA-CMV Vector (Fusion Trans-

classified activator Plasmid)

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

# Section 3. Composition/information on ingredients

Substance/mixture : pFA-CMV Vector (Fusion Trans- Mixture

activator Plasmid)

XL1-Blue MRF' E.coli Strain Mixture

Ingredient name	%	CAS number
L1-Blue MRF' E.coli Strain		
Glycerol	≥10 - ≤25	56-81-5

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

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.

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

# Section 4. First aid measures

### 4.1 Description of necessary first aid measures

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

**Date of issue**: 11/29/2023 **2/16** 

Inhalation

## Section 4. First aid measures

: 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. 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.

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. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water.

medical attention if symptoms occur.

Remove contaminated clothing and shoes. Get

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 personnel. Get medical attention if symptoms

XL1-Blue MRF' E.coli Strain

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.

# 4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation

: pFA-CMV Vector (Fusion Trans-Eye contact

activator Plasmid)

XL1-Blue MRF' E.coli Strain

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

Skin contact : pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

Ingestion : pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

No known significant effects or critical hazards.

Causes eye irritation.

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.

Date of issue: 11/29/2023 3/16

## Section 4. First aid measures

## Over-exposure signs/symptoms

: pFA-CMV Vector (Fusion Trans-Eye contact

activator Plasmid)

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

No specific data.

irritation watering redness

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

activator Plasmid)

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

**Skin contact** : pFA-CMV Vector (Fusion Trans-

activator Plasmid)

No specific data.

Ingestion : pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

No specific data. No specific data.

No specific data.

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

XL1-Blue MRF' E.coli Strain

Notes to physician : pFA-CMV Vector (Fusion Trans-

activator Plasmid)

Treat symptomatically. Contact poison treatment 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. No specific treatment.

Specific treatments : pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

No specific treatment.

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. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the

surrounding fire.

Unsuitable extinguishing

media

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

None known.

None known.

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

Specific hazards arising from the chemical

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

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.

Date of issue: 11/29/2023 4/16

# Section 5. Fire-fighting measures

**Hazardous thermal** decomposition products : pFA-CMV Vector (Fusion Transactivator Plasmid)

XL1-Blue MRF' E.coli Strain Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

No specific data.

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special protective actions 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.

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.

**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.

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.

# Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: pFA-CMV Vector (Fusion Transactivator Plasmid)

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 spilled material. Put on

appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor 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)

XL1-Blue MRF' E.coli Strain

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Date of issue: 11/29/2023 5/16

# Section 6. Accidental release measures

# **6.2 Environmental precautions**

: pFA-CMV Vector (Fusion Transactivator Plasmid)

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

XL1-Blue MRF' E.coli Strain

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

: pFA-CMV Vector (Fusion Transactivator 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

### 7.1 Precautions for safe handling

**Protective measures** 

: pFA-CMV Vector (Fusion Transactivator 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 vapor 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 reuse container.

Advice on general occupational hygiene

: pFA-CMV Vector (Fusion Transactivator Plasmid)

XL1-Blue MRF' E.coli Strain

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.

Date of issue: 11/29/2023 6/16

# Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: pFA-CMV Vector (Fusion Transactivator Plasmid)

original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food

and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in

XL1-Blue MRF' E.coli Strain

7.3 Specific end use(s)

**Recommendations**: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

Industrial sector specific

solutions

pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Not available.

Not available.

# Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
XL1-Blue MRF' E.coli Strain	
Glycerol	OSHA PEL 1989 (United States, 3/1989).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours. Form: respirable fraction  TWA: 10 mg/m³ 8 hours. Form: total dust

### **Biological exposure indices**

No exposure indices known.

### **8.2 Exposure controls**

**Date of issue:** 11/29/2023 **7/16** 

# Section 8. Exposure controls/personal protection

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.

### **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 sideshields.

**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 Trans- Liquid.

activator Plasmid)

XL1-Blue MRF' E.coli Strain Liquid.

Color : pFA-CMV Vector (Fusion Trans- Not available.

activator Plasmid)

XL1-Blue MRF' E.coli Strain Not available. pFA-CMV Vector (Fusion Trans- Not available.

Odor : pFA-CMV Vector (Fusion Trans-

activator Plasmid)

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

Odor threshold : pFA-CMV Vector (Fusion Trans- Not available.

activator Plasmid)

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

pH : pFA-CMV Vector (Fusion Trans- 7.5

activator Plasmid)

XL1-Blue MRF' E.coli Strain 7

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

activator Plasmid)

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

**Date of issue :** 11/29/2023 **8/16** 

# Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

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

Flash point

	Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
XL1-Blue MRF' E. coli Strain						
Glycerol	-	-	-	177	350.6	-

100°C (212°F)

Evaporation rate

: pFA-CMV Vector (Fusion Trans-

Not available.

activator Plasmid)

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

**Flammability** 

: pFA-CMV Vector (Fusion Trans-

Not applicable.

activator Plasmid)

XL1-Blue MRF' E.coli Strain

XL1-Blue MRF' E.coli Strain

Not applicable.

Lower and upper explosion limit/flammability limit

: pFA-CMV Vector (Fusion Trans-

Not available.

activator Plasmid)

Not available.

Vapor pressure

	Vapo	r Pressui	re at 20°C	Vap	or pressu	re at 50°C
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 vapor density** 

: pFA-CMV Vector (Fusion Trans-

XL1-Blue MRF' E.coli Strain

Not available.

activator Plasmid)

Not available.

Relative density : pFA-CMV Vector (Fusion Trans-

Not available.

activator Plasmid)

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

Solubility(ies)

Media	Result
pFA-CMV Vector (Fusion Trans-	
activator Plasmid)	
	Soluble
XL1-Blue MRF' E.coli Strain	
water	Soluble

Partition coefficient: n-octanol/water

: pFA-CMV Vector (Fusion Trans-

Not applicable.

activator Plasmid)

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

**Auto-ignition temperature** 

		• • •		
:	Ingredient name	°C	۴	Method
	XL1-Blue MRF' E.coli Strain			
	Glycerol	370	698	-

**Date of issue :** 11/29/2023 **9/16** 

# Section 9. Physical and chemical properties and safety characteristics

**Decomposition temperature**: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

Not available.

Not available.

Not available.

XL1-Blue MRF' E.coli Strain **Viscosity** 

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

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

**Particle characteristics** 

: pFA-CMV Vector (Fusion Trans-Median particle size activator Plasmid)

XL1-Blue MRF' E.coli Strain

Not applicable.

Not applicable.

# Section 10. Stability and reactivity

: pFA-CMV Vector (Fusion Trans-10.1 Reactivity

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.

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 oxidizing

materials.

May react or be incompatible with oxidizing

materials.

10.6 Hazardous decomposition products : pFA-CMV Vector (Fusion Trans-

activator Plasmid)

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

XL1-Blue MRF' E.coli Strain

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				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

**Irritation/Corrosion** 

Date of issue: 11/29/2023 10/16

# **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
KL1-Blue MRF' E.coli Strain Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	24 hours 500 mg 24 hours 500 mg	-

#### **Sensitization**

Not available.

**Mutagenicity** 

Conclusion/Summary : N

: 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 the 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, Eyes.

Potential acute health effects

**Eye contact** 

Inhalation

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

**Skin contact** 

Ingestion

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

: pFA-CMV Vector (Fusion Trans-

activator Plasmid)

XL1-Blue MRF' E.coli Strain

No known significant effects or critical hazards.

Causes eye irritation.

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** 

: pFA-CMV Vector (Fusion Transactivator Plasmid)

XL1-Blue MRF' E.coli Strain

No specific data.

Adverse symptoms may include the following:

irritation watering redness

**Date of issue:** 11/29/2023 11//16

# **Section 11. Toxicological information**

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

activator Plasmid)

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

activator Plasmid)

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

Ingestion : pFA-CMV Vector (Fusion Trans-No specific data.

activator Plasmid)

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

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

**Short term exposure** 

Potential immediate

: Not available.

effects

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-No known significant effects or critical hazards.

activator Plasmid)

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

activator Plasmid)

XL1-Blue MRF' E.coli Strain

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

activator Plasmid)

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

: pFA-CMV Vector (Fusion Trans-Reproductive toxicity No known significant effects or critical hazards.

activator Plasmid)

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

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	( 3	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
XL1-Blue MRF' E.coli Strain XL1-Blue MRF' E.coli Strain Glycerol	300000.0	N/A	N/A	N/A	N/A
	12600	N/A	N/A	N/A	N/A

Date of issue: 11/29/2023 12/16

# **Section 12. Ecological information**

### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
XL1-Blue MRF' E.coli Strain			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
XL1-Blue MRF' E.coli Strain Glycerol		93 % - 30 days	-	-

### 12.3 Bioaccumulative potential

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

### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

12.5 Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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

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

Date of issue: 11/29/2023 13/16

# **Section 14. Transport information**

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

IATA

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

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

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

**Class II Substances** 

: Not listed

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification PA-CMV Vector (Fusion Trans-activator Not applicable.

Plasmid)

XL1-Blue MRF' E.coli Strain EYE IRRITATION - Category 2B

Composition/information on ingredients

Name	%	Classification
<b>X</b> L1-Blue MRF' E.coli Strain		
Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B

### **State regulations**

**Massachusetts** : The following components are listed: GLYCERINE MIST

**New York** : None of the components are listed.

: The following components are listed: GLYCERIN **New Jersey** 

**Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Date of issue: 11/29/2023 14/16

# Section 15. Regulatory information

Not listed.

#### **Montreal Protocol**

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Japan : Japan inventory (CSCL): All components are listed or exempted.

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

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : All components are listed or exempted.

# Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
XL1-Blue MRF' E.coli Strain	
EYE IRRITATION - Category 2B	Calculation method

### **History**

Date of issue/Date of

revision

: 11/29/2023

Date of previous issue : 10/19/2020

Version : 7

**Key to abbreviations** : 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 UN = United Nations

## ✓ Indicates information that has changed from previously issued version.

### **Notice to reader**

**Date of issue:** 11/29/2023 **15/16** 

# Section 16. Other information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

**Date of issue:** 11/29/2023 **16/16**