

# SAFETY DATA SHEET



pCMV-Tag4 Epitope Tagging Mammalian Expression Vectors, Part Number 211174

## Section 1. Identification

<b>Product identifier</b>	: pCMV-Tag4 Epitope Tagging Mammalian Expression Vectors, Part Number 211174
<b>Part no. (chemical kit)</b>	: 211174
<b>Part no.</b>	: pCMV-Tag4A Mammalian Expression Vector 211174-51
	pCMV-Tag4B Mammalian Expression Vector 211174-52
	pCMV-Tag4C Mammalian Expression Vector 211174-53
	pCMV-Tag4 Expression Control Plasmid 211174-54
	XL1-Blue E. coli Strain 200268-81

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

<b>Identified uses</b>	:  Analytical reagent.
	pCMV-Tag4A Mammalian Expression Vector 20 µl (20 µg 1 µg/µl)
	pCMV-Tag4B Mammalian Expression Vector 20 µl (20 µg 1 µg/µl)
	pCMV-Tag4C Mammalian Expression Vector 20 µl (20 µg 1 µg/µl)
	pCMV-Tag4 Expression Control Plasmid 20 µl (20 µg 1 µg/µl)
	XL1-Blue E. coli Strain 500 µl

<b>Supplier/Manufacturer</b>	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402
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<b>Emergency telephone number (with hours of operation)</b>	: CHEMTREC®: +(61)-290372994
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## Section 2. Hazard(s) identification

### Classification of the substance or mixture

**XL1-Blue E. coli Strain**  
H320

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

### GHS label elements

<b>Signal word</b>	:  pCMV-Tag4A Mammalian Expression Vector No signal word.
	pCMV-Tag4B Mammalian Expression Vector No signal word.
	pCMV-Tag4C Mammalian Expression Vector No signal word.
	pCMV-Tag4 Expression Control Plasmid No signal word.
	XL1-Blue E. coli Strain WARNING
<b>Hazard statements</b>	:  pCMV-Tag4A Mammalian Expression Vector No known significant effects or critical hazards.
	pCMV-Tag4B Mammalian Expression Vector No known significant effects or critical hazards.
	pCMV-Tag4C Mammalian Expression Vector No known significant effects or critical hazards.
	pCMV-Tag4 Expression Control Plasmid No known significant effects or critical hazards.

## Section 2. Hazard(s) identification

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

### Precautionary statements

#### Prevention

: pCMV-Tag4A Mammalian Expression Vector Not applicable.  
 pCMV-Tag4B Mammalian Expression Vector Not applicable.  
 pCMV-Tag4C Mammalian Expression Vector Not applicable.  
 pCMV-Tag4 Expression Control Plasmid Not applicable.  
 XL1-Blue E. coli Strain Not applicable.

#### Response

: pCMV-Tag4A Mammalian Expression Vector Not applicable.  
 pCMV-Tag4B Mammalian Expression Vector Not applicable.  
 pCMV-Tag4C Mammalian Expression Vector Not applicable.  
 pCMV-Tag4 Expression Control Plasmid Not applicable.  
 XL1-Blue 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

: pCMV-Tag4A Mammalian Expression Vector Not applicable.  
 pCMV-Tag4B Mammalian Expression Vector Not applicable.  
 pCMV-Tag4C Mammalian Expression Vector Not applicable.  
 pCMV-Tag4 Expression Control Plasmid Not applicable.  
 XL1-Blue E. coli Strain Not applicable.

#### Disposal

: pCMV-Tag4A Mammalian Expression Vector Not applicable.  
 pCMV-Tag4B Mammalian Expression Vector Not applicable.  
 pCMV-Tag4C Mammalian Expression Vector Not applicable.  
 pCMV-Tag4 Expression Control Plasmid Not applicable.  
 XL1-Blue E. coli Strain Not applicable.

### Supplemental label elements

#### Additional warning phrases

: pCMV-Tag4A Mammalian Expression Vector Not applicable.  
 pCMV-Tag4B Mammalian Expression Vector Not applicable.  
 pCMV-Tag4C Mammalian Expression Vector Not applicable.  
 pCMV-Tag4 Expression Control Plasmid Not applicable.  
 XL1-Blue E. coli Strain Not applicable.

#### Other hazards which do not result in classification

: pCMV-Tag4A Mammalian Expression Vector None known.  
 pCMV-Tag4B Mammalian Expression Vector None known.  
 pCMV-Tag4C Mammalian Expression Vector None known.  
 pCMV-Tag4 Expression Control Plasmid None known.

## Section 2. Hazard(s) identification

XL1-Blue E. coli Strain

None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	:	pCMV-Tag4A Mammalian Expression Vector	Mixture
		pCMV-Tag4B Mammalian Expression Vector	Mixture
		pCMV-Tag4C Mammalian Expression Vector	Mixture
		pCMV-Tag4 Expression Control Plasmid	Mixture
		XL1-Blue E. coli Strain	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
XL1-Blue 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

<b>Eye contact</b>	:	<p>pCMV-Tag4A Mammalian Expression Vector</p> <p>pCMV-Tag4B Mammalian Expression Vector</p> <p>pCMV-Tag4C Mammalian Expression Vector</p> <p>pCMV-Tag4 Expression Control Plasmid</p> <p>XL1-Blue E. coli Strain</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<b>Inhalation</b>	:	<p>pCMV-Tag4A Mammalian Expression Vector</p> <p>pCMV-Tag4B Mammalian Expression Vector</p> <p>pCMV-Tag4C Mammalian Expression Vector</p> <p>pCMV-Tag4 Expression Control Plasmid</p>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>

## Section 4. First aid measures

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

: pCMV-Tag4A Mammalian Expression Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pCMV-Tag4B Mammalian Expression Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pCMV-Tag4C Mammalian Expression Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pCMV-Tag4 Expression Control Plasmid

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

XL1-Blue 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

: pCMV-Tag4A Mammalian Expression Vector

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

pCMV-Tag4B Mammalian Expression Vector

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

pCMV-Tag4C Mammalian Expression Vector

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

pCMV-Tag4 Expression Control Plasmid

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

XL1-Blue 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.

## Section 4. First aid measures

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	Causes eye irritation.
<b>Inhalation</b>	: pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Skin contact</b>	: pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Ingestion</b>	: pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: pCMV-Tag4A Mammalian Expression Vector	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	Adverse symptoms may include the following: irritation watering redness
<b>Inhalation</b>	: pCMV-Tag4A Mammalian Expression Vector	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	No specific data.

## Section 4. First aid measures

<b>Skin contact</b>	: pCMV-Tag4A Mammalian Expression Vector	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b>Ingestion</b>	: pCMV-Tag4A Mammalian Expression Vector	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	No specific data.

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

<b>Notes to physician</b>	: pCMV-Tag4A Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-Tag4B Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-Tag4C Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-Tag4 Expression Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XL1-Blue E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: pCMV-Tag4A Mammalian Expression Vector	No specific treatment.
	pCMV-Tag4B Mammalian Expression Vector	No specific treatment.
	pCMV-Tag4C Mammalian Expression Vector	No specific treatment.
	pCMV-Tag4 Expression Control Plasmid	No specific treatment.
	XL1-Blue E. coli Strain	No specific treatment.
<b>Protection of first-aiders</b>	: pCMV-Tag4A Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-Tag4B Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-Tag4C Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-Tag4 Expression Control Plasmid	No action shall be taken involving any personal risk or without suitable training.
	XL1-Blue E. coli Strain	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

<b>Suitable extinguishing media</b>	: pCMV-Tag4A Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
	pCMV-Tag4B Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
	pCMV-Tag4C Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
	pCMV-Tag4 Expression Control Plasmid	Use an extinguishing agent suitable for the surrounding fire.
	XL1-Blue E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.

<b>Unsuitable extinguishing media</b>	: pCMV-Tag4A Mammalian Expression Vector	None known.
	pCMV-Tag4B Mammalian Expression Vector	None known.
	pCMV-Tag4C Mammalian Expression Vector	None known.
	pCMV-Tag4 Expression Control Plasmid	None known.
	XL1-Blue E. coli Strain	None known.

<b>Specific hazards arising from the chemical</b>	: pCMV-Tag4A Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCMV-Tag4B Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCMV-Tag4C Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCMV-Tag4 Expression Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.
	XL1-Blue E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.

<b>Hazardous thermal decomposition products</b>	: pCMV-Tag4A Mammalian Expression Vector	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

<b>Special protective actions for fire-fighters</b>	: pCMV-Tag4A Mammalian Expression Vector	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.
	pCMV-Tag4B Mammalian Expression Vector	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.
	pCMV-Tag4C Mammalian Expression Vector	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.
	pCMV-Tag4 Expression Control 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

## Section 5. Firefighting measures

### Special protective equipment for fire-fighters

XL1-Blue E. coli Strain

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.

: pCMV-Tag4A Mammalian Expression Vector

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

pCMV-Tag4B Mammalian Expression Vector

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

pCMV-Tag4C Mammalian Expression Vector

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

pCMV-Tag4 Expression Control 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 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

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: pCMV-Tag4A Mammalian Expression Vector

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.

pCMV-Tag4B Mammalian Expression Vector

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.

pCMV-Tag4C Mammalian Expression Vector

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.

pCMV-Tag4 Expression Control 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 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.



## Section 6. Accidental release measures

<b>For emergency responders</b>	pCMV-Tag4A Mammalian Expression Vector	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".
	pCMV-Tag4B Mammalian Expression Vector	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".
	pCMV-Tag4C Mammalian Expression Vector	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".
	pCMV-Tag4 Expression Control 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 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".
<b>Environmental precautions</b>	pCMV-Tag4A Mammalian Expression Vector	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).
	pCMV-Tag4B Mammalian Expression Vector	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).
	pCMV-Tag4C Mammalian Expression Vector	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).
	pCMV-Tag4 Expression Control Plasmid	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	XL1-Blue 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

<b>Methods for cleaning up</b>	pCMV-Tag4A Mammalian Expression Vector	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.
	pCMV-Tag4B Mammalian Expression Vector	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.
	pCMV-Tag4C Mammalian Expression Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

## Section 6. Accidental release measures

pCMV-Tag4 Expression  
Control Plasmid

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.

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 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

: pCMV-Tag4A Mammalian  
Expression Vector  
pCMV-Tag4B Mammalian  
Expression Vector  
pCMV-Tag4C Mammalian  
Expression Vector  
pCMV-Tag4 Expression  
Control Plasmid  
XL1-Blue E. coli Strain

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

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

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

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 reuse container.

#### Advice on general occupational hygiene

: pCMV-Tag4A Mammalian  
Expression Vector

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.

pCMV-Tag4B Mammalian  
Expression Vector

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.

pCMV-Tag4C Mammalian  
Expression Vector

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.

pCMV-Tag4 Expression  
Control Plasmid

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

## Section 7. Handling and storage

XL1-Blue E. coli Strain

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.

**Conditions for safe storage, including any incompatibilities** : pCMV-Tag4A Mammalian Expression Vector

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.

pCMV-Tag4B Mammalian Expression Vector

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.

pCMV-Tag4C Mammalian Expression Vector

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.

pCMV-Tag4 Expression Control Plasmid

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

XL1-Blue 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

## Section 7. Handling and storage

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
<b>XL1-Blue E. coli Strain</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

### Biological exposure indices

No exposure indices known.

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

### Individual protection measures

- Hygiene measures** : 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

<b>Physical state</b>	:	pCMV-Tag4A Mammalian Expression Vector	Liquid.
	:	pCMV-Tag4B Mammalian Expression Vector	Liquid.
	:	pCMV-Tag4C Mammalian Expression Vector	Liquid.
	:	pCMV-Tag4 Expression Control Plasmid	Liquid.
	:	XL1-Blue E. coli Strain	Liquid.
	:		
<b>Colour</b>	:	pCMV-Tag4A Mammalian Expression Vector	Not available.
	:	pCMV-Tag4B Mammalian Expression Vector	Not available.
	:	pCMV-Tag4C Mammalian Expression Vector	Not available.
	:	pCMV-Tag4 Expression Control Plasmid	Not available.
	:	XL1-Blue E. coli Strain	Not available.
	:		
<b>Odour</b>	:	pCMV-Tag4A Mammalian Expression Vector	Not available.
	:	pCMV-Tag4B Mammalian Expression Vector	Not available.
	:	pCMV-Tag4C Mammalian Expression Vector	Not available.
	:	pCMV-Tag4 Expression Control Plasmid	Not available.
	:	XL1-Blue E. coli Strain	Not available.
	:		
<b>Odour threshold</b>	:	pCMV-Tag4A Mammalian Expression Vector	Not available.
	:	pCMV-Tag4B Mammalian Expression Vector	Not available.
	:	pCMV-Tag4C Mammalian Expression Vector	Not available.
	:	pCMV-Tag4 Expression Control Plasmid	Not available.
	:	XL1-Blue E. coli Strain	Not available.
	:		
<b>pH</b>	:	pCMV-Tag4A Mammalian Expression Vector	7.5
	:	pCMV-Tag4B Mammalian Expression Vector	7.5
	:	pCMV-Tag4C Mammalian Expression Vector	7.5
	:	pCMV-Tag4 Expression Control Plasmid	7.5
	:	XL1-Blue E. coli Strain	7.5
	:		
<b>Melting point/freezing point</b>	:	pCMV-Tag4A Mammalian Expression Vector	0°C (32°F)
	:	pCMV-Tag4B Mammalian Expression Vector	0°C (32°F)
	:	pCMV-Tag4C Mammalian Expression Vector	0°C (32°F)
	:	pCMV-Tag4 Expression Control Plasmid	0°C (32°F)
	:	XL1-Blue E. coli Strain	Not available.
	:		

## Section 9. Physical and chemical properties and safety characteristics

<b>Boiling point, initial boiling point, and boiling range</b>	pCMV-Tag4A Mammalian Expression Vector	100°C (212°F)
	pCMV-Tag4B Mammalian Expression Vector	100°C (212°F)
	pCMV-Tag4C Mammalian Expression Vector	100°C (212°F)
	pCMV-Tag4 Expression Control Plasmid	100°C (212°F)
	XL1-Blue E. coli Strain	Not available.

Flash point	:		Closed cup			Open cup		
		Ingredient name	°C	°F	Method	°C	°F	Method
		XL1-Blue E. coli Strain						
		Glycerol	-	-	-	177	350.6	-



<b>Evaporation rate</b>	pCMV-Tag4A Mammalian Expression Vector	Not available.
	pCMV-Tag4B Mammalian Expression Vector	Not available.
	pCMV-Tag4C Mammalian Expression Vector	Not available.
	pCMV-Tag4 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.

<b>Flammability</b>	pCMV-Tag4A Mammalian Expression Vector	Not applicable.
	pCMV-Tag4B Mammalian Expression Vector	Not applicable.
	pCMV-Tag4C Mammalian Expression Vector	Not applicable.
	pCMV-Tag4 Expression Control Plasmid	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.

<b>Lower and upper explosion limit/flammability limit</b>	pCMV-Tag4A Mammalian Expression Vector	Not available.
	pCMV-Tag4B Mammalian Expression Vector	Not available.
	pCMV-Tag4C Mammalian Expression Vector	Not available.
	pCMV-Tag4 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.

Vapour pressure

:

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
 pCMV-Tag4A Mammalian Expression Vector						
water	17.5	2.3	-	92.258	12.3	-
 pCMV-Tag4B Mammalian Expression Vector						
water	17.5	2.3	-	92.258	12.3	-



## Section 9. Physical and chemical properties and safety characteristics

<b>pCMV-Tag4C Mammalian Expression Vector</b>							
water	17.5	2.3	-		92.258	12.3	-
<b>pCMV-Tag4 Expression Control Plasmid</b>							
water	17.5	2.3	-		92.258	12.3	-
<b>XL1-Blue E. coli Strain</b>							
water	17.5	2.3	-		92.258	12.3	-
Glycerol	0.000075	0.00001	-		0.0025	0.00033	-

**Relative vapour density** : pCMV-Tag4A Mammalian Expression Vector Not available.

pCMV-Tag4B Mammalian Expression Vector Not available.

pCMV-Tag4C Mammalian Expression Vector Not available.

pCMV-Tag4 Expression Control Plasmid Not available.

XL1-Blue E. coli Strain Not available.

**Relative density** : pCMV-Tag4A Mammalian Expression Vector Not available.

pCMV-Tag4B Mammalian Expression Vector Not available.

pCMV-Tag4C Mammalian Expression Vector Not available.

pCMV-Tag4 Expression Control Plasmid Not available.

XL1-Blue E. coli Strain Not available.

**Solubility(ies)**

Media	Result
<b>pCMV-Tag4A Mammalian Expression Vector</b>	
water	Soluble
<b>pCMV-Tag4B Mammalian Expression Vector</b>	
water	Soluble
<b>pCMV-Tag4C Mammalian Expression Vector</b>	
water	Soluble
<b>pCMV-Tag4 Expression Control Plasmid</b>	
water	Soluble
<b>XL1-Blue E. coli Strain</b>	
water	Soluble

## Section 9. Physical and chemical properties and safety characteristics

<b>Partition coefficient: n-octanol/water</b>	: pCMV-Tag4A Mammalian Expression Vector	Not applicable.
	pCMV-Tag4B Mammalian Expression Vector	Not applicable.
	pCMV-Tag4C Mammalian Expression Vector	Not applicable.
	pCMV-Tag4 Expression Control Plasmid	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.

<b>Auto-ignition temperature</b>	: <b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
	XL1-Blue E. coli Strain			
	Glycerol	370	698	-

<b>Decomposition temperature</b>	: pCMV-Tag4A Mammalian Expression Vector	Not available.
	pCMV-Tag4B Mammalian Expression Vector	Not available.
	pCMV-Tag4C Mammalian Expression Vector	Not available.
	pCMV-Tag4 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.

<b>Viscosity</b>	: pCMV-Tag4A Mammalian Expression Vector	Not available.
	pCMV-Tag4B Mammalian Expression Vector	Not available.
	pCMV-Tag4C Mammalian Expression Vector	Not available.
	pCMV-Tag4 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.

### Particle characteristics

<b>Median particle size</b>	: pCMV-Tag4A Mammalian Expression Vector	Not applicable.
	pCMV-Tag4B Mammalian Expression Vector	Not applicable.
	pCMV-Tag4C Mammalian Expression Vector	Not applicable.
	pCMV-Tag4 Expression Control Plasmid	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: pCMV-Tag4A Mammalian Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
	pCMV-Tag4B Mammalian Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
	pCMV-Tag4C Mammalian Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
	pCMV-Tag4 Expression Control Plasmid	No specific test data related to reactivity available for this product or its ingredients.
	XL1-Blue E. coli Strain	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

<b>Chemical stability</b>	: pCMV-Tag4A Mammalian Expression Vector	The product is stable.
	pCMV-Tag4B Mammalian Expression Vector	The product is stable.
	pCMV-Tag4C Mammalian Expression Vector	The product is stable.
	pCMV-Tag4 Expression Control Plasmid	The product is stable.
	XL1-Blue E. coli Strain	The product is stable.
<b>Possibility of hazardous reactions</b>	: pCMV-Tag4A Mammalian Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV-Tag4B Mammalian Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV-Tag4C Mammalian Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV-Tag4 Expression Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
	XL1-Blue E. coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: pCMV-Tag4A Mammalian Expression Vector	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b>Incompatible materials</b>	: pCMV-Tag4A Mammalian Expression Vector	May react or be incompatible with oxidising materials.
	pCMV-Tag4B Mammalian Expression Vector	May react or be incompatible with oxidising materials.
	pCMV-Tag4C Mammalian Expression Vector	May react or be incompatible with oxidising materials.
	pCMV-Tag4 Expression Control Plasmid	May react or be incompatible with oxidising materials.
	XL1-Blue E. coli Strain	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: pCMV-Tag4A Mammalian Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCMV-Tag4B Mammalian Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCMV-Tag4C Mammalian Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCMV-Tag4 Expression Control Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XL1-Blue 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 E. coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

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

#### Sensitisation

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	pCMV-Tag4A Mammalian Expression Vector	Not available.
	pCMV-Tag4B Mammalian Expression Vector	Not available.
	pCMV-Tag4C Mammalian Expression Vector	Not available.
	pCMV-Tag4 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

Eye contact	pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	Causes eye irritation.

## Section 11. Toxicological information

<b>Inhalation</b>	:	pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
	:	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Skin contact</b>	:	pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
	:	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Ingestion</b>	:	pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
	:	pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
	:	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

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

<b>Eye contact</b>	:	pCMV-Tag4A Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4 Expression Control Plasmid	No specific data.
	:	XL1-Blue E. coli Strain	Adverse symptoms may include the following: irritation watering redness
<b>Inhalation</b>	:	pCMV-Tag4A Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4 Expression Control Plasmid	No specific data.
	:	XL1-Blue E. coli Strain	No specific data.
<b>Skin contact</b>	:	pCMV-Tag4A Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	:	pCMV-Tag4 Expression Control Plasmid	No specific data.
	:	XL1-Blue E. coli Strain	No specific data.

## Section 11. Toxicological information

<b>Ingestion</b>	:	pCMV-Tag4A Mammalian Expression Vector	No specific data.
		pCMV-Tag4B Mammalian Expression Vector	No specific data.
		pCMV-Tag4C Mammalian Expression Vector	No specific data.
		pCMV-Tag4 Expression Control Plasmid	No specific data.
		XL1-Blue 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

<b>General</b>	:	pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Mutagenicity</b>	:	pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	:	pCMV-Tag4A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag4 Expression Control Plasmid	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.

### Numerical measures of toxicity



## Section 11. Toxicological information

### Acute toxicity estimates

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

## Section 12. Ecological information

### Toxicity

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

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
XL1-Blue E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
XL1-Blue E. coli Strain Glycerol	-1.76	-	Low

### Mobility in soil

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

## Section 15. Regulatory information

### Standard for the Uniform Scheduling of Medicines and Poisons

5

### 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.

### Inventory list

**Australia** : Not determined.

**New Zealand** : All components are listed or exempted.

**United States** : All components are active or exempted.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 08/01/2024

**Date of previous issue** : 10/11/2020


**Version** : 7

**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

## Section 16. Any other relevant information

### [Procedure used to derive the classification](#)

Classification	Justification
 <b>XL1-Blue E. coli Strain</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method

 Indicates information that has changed from previously issued version.

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