

SAFETY DATA SHEET



pCMV-Tag2 Epitope Tagging Mammalian Expression Vectors, Part Number
211172

Section 1. Identification

Product identifier	:	pCMV-Tag2 Epitope Tagging Mammalian Expression Vectors, Part Number 211172										
Part No. (Chemical Kit)	:	211172										
Part No.	:	<table> <tr> <td>pCMV-Tag2A Mammalian Expression Vector</td> <td>211172-51</td> </tr> <tr> <td>pCMV-Tag2B Mammalian Expression Vector</td> <td>211172-52</td> </tr> <tr> <td>pCMV-Tag2C Mammalian Expression Vector</td> <td>211172-53</td> </tr> <tr> <td>pCMV-Tag2 Control Mammalian Expression Vector</td> <td>211172-54</td> </tr> <tr> <td>XL1-Blue E. coli Strain</td> <td>200268-81</td> </tr> </table>	pCMV-Tag2A Mammalian Expression Vector	211172-51	pCMV-Tag2B Mammalian Expression Vector	211172-52	pCMV-Tag2C Mammalian Expression Vector	211172-53	pCMV-Tag2 Control Mammalian Expression Vector	211172-54	XL1-Blue E. coli Strain	200268-81
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pCMV-Tag2C Mammalian Expression Vector	211172-53											
pCMV-Tag2 Control Mammalian Expression Vector	211172-54											
XL1-Blue E. coli Strain	200268-81											

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

Analytical reagent.

pCMV-Tag2A Mammalian Expression Vector	20 µl (20 µg 1 µg/µl)
pCMV-Tag2B Mammalian Expression Vector	20 µl (20 µg 1 µg/µl)
pCMV-Tag2C Mammalian Expression Vector	20 µl (20 µg 1 µg/µl)
pCMV-Tag2 Control Mammalian Expression Vector	20 µl (20 µg 1 µg/µl)
XL1-Blue E. coli Strain	500 µl

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

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

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word	:	<table> <tr> <td>pCMV-Tag2A Mammalian Expression Vector</td> <td>No signal word.</td> </tr> <tr> <td>pCMV-Tag2B Mammalian Expression Vector</td> <td>No signal word.</td> </tr> <tr> <td>pCMV-Tag2C Mammalian Expression Vector</td> <td>No signal word.</td> </tr> <tr> <td>pCMV-Tag2 Control Mammalian Expression Vector</td> <td>No signal word.</td> </tr> <tr> <td>XL1-Blue E. coli Strain</td> <td>No signal word.</td> </tr> </table>	pCMV-Tag2A Mammalian Expression Vector	No signal word.	pCMV-Tag2B Mammalian Expression Vector	No signal word.	pCMV-Tag2C Mammalian Expression Vector	No signal word.	pCMV-Tag2 Control Mammalian Expression Vector	No signal word.	XL1-Blue E. coli Strain	No signal word.
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pCMV-Tag2C Mammalian Expression Vector	No signal word.											
pCMV-Tag2 Control Mammalian Expression Vector	No signal word.											
XL1-Blue E. coli Strain	No signal word.											
Hazard statements	:	<table> <tr> <td>pCMV-Tag2A Mammalian Expression Vector</td> <td>No known significant effects or critical hazards.</td> </tr> <tr> <td>pCMV-Tag2B Mammalian Expression Vector</td> <td>No known significant effects or critical hazards.</td> </tr> <tr> <td>pCMV-Tag2C Mammalian Expression Vector</td> <td>No known significant effects or critical hazards.</td> </tr> <tr> <td>pCMV-Tag2 Control Mammalian Expression</td> <td>No known significant effects or critical hazards.</td> </tr> </table>	pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.	pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.	pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.	pCMV-Tag2 Control Mammalian Expression	No known significant effects or critical hazards.		
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pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.											
pCMV-Tag2 Control Mammalian Expression	No known significant effects or critical hazards.											

Section 2. Hazard(s) identification

	Vector	
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: pCMV-Tag2A Mammalian Expression Vector	Not applicable.
	pCMV-Tag2B Mammalian Expression Vector	Not applicable.
	pCMV-Tag2C Mammalian Expression Vector	Not applicable.
	pCMV-Tag2 Control Mammalian Expression Vector	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
Response	: pCMV-Tag2A Mammalian Expression Vector	Not applicable.
	pCMV-Tag2B Mammalian Expression Vector	Not applicable.
	pCMV-Tag2C Mammalian Expression Vector	Not applicable.
	pCMV-Tag2 Control Mammalian Expression Vector	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
Storage	: pCMV-Tag2A Mammalian Expression Vector	Not applicable.
	pCMV-Tag2B Mammalian Expression Vector	Not applicable.
	pCMV-Tag2C Mammalian Expression Vector	Not applicable.
	pCMV-Tag2 Control Mammalian Expression Vector	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
Disposal	: pCMV-Tag2A Mammalian Expression Vector	Not applicable.
	pCMV-Tag2B Mammalian Expression Vector	Not applicable.
	pCMV-Tag2C Mammalian Expression Vector	Not applicable.
	pCMV-Tag2 Control Mammalian Expression Vector	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
Supplemental label elements	: pCMV-Tag2A Mammalian Expression Vector	Not applicable.
	pCMV-Tag2B Mammalian Expression Vector	Not applicable.
	pCMV-Tag2C Mammalian Expression Vector	Not applicable.
	pCMV-Tag2 Control Mammalian Expression Vector	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
Other hazards which do not result in classification	: pCMV-Tag2A Mammalian Expression Vector	None known.
	pCMV-Tag2B Mammalian Expression Vector	None known.
	pCMV-Tag2C Mammalian Expression Vector	None known.
	pCMV-Tag2 Control Mammalian Expression Vector	None known.

Section 2. Hazard(s) identification

Vector
XL1-Blue E. coli Strain None known.

Section 3. Composition and ingredient information

Substance/mixture :

pCMV-Tag2A Mammalian Expression Vector	Mixture
pCMV-Tag2B Mammalian Expression Vector	Mixture
pCMV-Tag2C Mammalian Expression Vector	Mixture
pCMV-Tag2 Control Mammalian Expression Vector	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 as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact :

pCMV-Tag2A Mammalian Expression Vector	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.
pCMV-Tag2B Mammalian Expression Vector	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.
pCMV-Tag2C Mammalian Expression Vector	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.
pCMV-Tag2 Control Mammalian Expression Vector	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.
XL1-Blue E. coli Strain	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation :

pCMV-Tag2A Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
pCMV-Tag2B Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
pCMV-Tag2C Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
pCMV-Tag2 Control Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
XL1-Blue E. coli Strain	Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

Skin contact

: pCMV-Tag2A Mammalian Expression Vector

pCMV-Tag2B Mammalian Expression Vector

pCMV-Tag2C Mammalian Expression Vector

pCMV-Tag2 Control Mammalian Expression Vector

XL1-Blue E. coli Strain

position comfortable for breathing. Get medical attention if symptoms occur.

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

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

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

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

Ingestion

: pCMV-Tag2A Mammalian Expression Vector

pCMV-Tag2B Mammalian Expression Vector

pCMV-Tag2C Mammalian Expression Vector

pCMV-Tag2 Control Mammalian Expression Vector

XL1-Blue E. coli Strain

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

Eye contact	:	pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Inhalation	:	pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Skin contact	:	pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Ingestion	:	pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	pCMV-Tag2A Mammalian Expression Vector	No specific data.
		pCMV-Tag2B Mammalian Expression Vector	No specific data.
		pCMV-Tag2C Mammalian Expression Vector	No specific data.
		pCMV-Tag2 Control Mammalian Expression Vector	No specific data.
		XL1-Blue E. coli Strain	No specific data.
Inhalation	:	pCMV-Tag2A Mammalian Expression Vector	No specific data.
		pCMV-Tag2B Mammalian Expression Vector	No specific data.
		pCMV-Tag2C Mammalian Expression Vector	No specific data.
		pCMV-Tag2 Control Mammalian Expression Vector	No specific data.
		XL1-Blue E. coli Strain	No specific data.

Section 4. First aid measures

Skin contact	:	pCMV-Tag2A Mammalian Expression Vector	No specific data.
		pCMV-Tag2B Mammalian Expression Vector	No specific data.
		pCMV-Tag2C Mammalian Expression Vector	No specific data.
		pCMV-Tag2 Control Mammalian Expression Vector	No specific data.
		XL1-Blue E. coli Strain	No specific data.
Ingestion	:	pCMV-Tag2A Mammalian Expression Vector	No specific data.
		pCMV-Tag2B Mammalian Expression Vector	No specific data.
		pCMV-Tag2C Mammalian Expression Vector	No specific data.
		pCMV-Tag2 Control Mammalian Expression Vector	No specific data.
		XL1-Blue E. coli Strain	No specific data.

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

Notes to physician	:	pCMV-Tag2A Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pCMV-Tag2B Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pCMV-Tag2C Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pCMV-Tag2 Control Mammalian Expression Vector	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.
Specific treatments	:	pCMV-Tag2A Mammalian Expression Vector	No specific treatment.
		pCMV-Tag2B Mammalian Expression Vector	No specific treatment.
		pCMV-Tag2C Mammalian Expression Vector	No specific treatment.
		pCMV-Tag2 Control Mammalian Expression Vector	No specific treatment.
		XL1-Blue E. coli Strain	No specific treatment.
Protection of first-aiders	:	pCMV-Tag2A Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
		pCMV-Tag2B Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
		pCMV-Tag2C Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
		pCMV-Tag2 Control Mammalian Expression Vector	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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

: pCMV-Tag2A Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
pCMV-Tag2B Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
pCMV-Tag2C Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
pCMV-Tag2 Control Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
XL1-Blue E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: pCMV-Tag2A Mammalian Expression Vector	None known.
pCMV-Tag2B Mammalian Expression Vector	None known.
pCMV-Tag2C Mammalian Expression Vector	None known.
pCMV-Tag2 Control Mammalian Expression Vector	None known.
XL1-Blue E. coli Strain	None known.

Specific hazards arising from the chemical

: pCMV-Tag2A Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
pCMV-Tag2B Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
pCMV-Tag2C Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
pCMV-Tag2 Control Mammalian Expression Vector	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.

Hazardous thermal decomposition products

: pCMV-Tag2A Mammalian Expression Vector	No specific data.
pCMV-Tag2B Mammalian Expression Vector	No specific data.
pCMV-Tag2C Mammalian Expression Vector	No specific data.
pCMV-Tag2 Control Mammalian Expression Vector	No specific data.
XL1-Blue E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: pCMV-Tag2A 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-Tag2B 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-Tag2C 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

Section 5. Firefighting measures

	pCMV-Tag2 Control Mammalian Expression Vector	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	XL1-Blue 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	: pCMV-Tag2A 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-Tag2B 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-Tag2C 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-Tag2 Control 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.
	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-Tag2A 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-Tag2B 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-Tag2C 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-Tag2 Control 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.
	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. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

For emergency responders	: pCMV-Tag2A 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-Tag2B 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-Tag2C 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-Tag2 Control 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".
	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".

Environmental precautions	: pCMV-Tag2A 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-Tag2B 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-Tag2C 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-Tag2 Control 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).
	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

Methods for cleaning up	: pCMV-Tag2A 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-Tag2B 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-Tag2C 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-Tag2 Control
Mammalian Expression
Vector

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-Tag2A Mammalian
Expression Vector
pCMV-Tag2B Mammalian
Expression Vector
pCMV-Tag2C Mammalian
Expression Vector
pCMV-Tag2 Control
Mammalian Expression
Vector
XL1-Blue E. coli Strain

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

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

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

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

Advice on general occupational hygiene

: pCMV-Tag2A 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-Tag2B 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-Tag2C 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-Tag2 Control
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.

XL1-Blue E. coli Strain

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

Section 7. Handling and storage

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-Tag2A 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.

pCMV-Tag2B 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.

pCMV-Tag2C 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.

pCMV-Tag2 Control 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.

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 environmental contamination.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> XL1-Blue E. coli Strain Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.

- 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

Appearance

- Physical state** : pCMV-Tag2A Mammalian Expression Vector Liquid.
 pCMV-Tag2B Mammalian Expression Vector Liquid.
 pCMV-Tag2C Mammalian Expression Vector Liquid.
 pCMV-Tag2 Control Mammalian Expression Vector Liquid.
 XL1-Blue E. coli Strain Liquid.

Section 9. Physical and chemical properties

Colour	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Odour	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Odour threshold	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
pH	:	pCMV-Tag2A Mammalian Expression Vector	7.5
		pCMV-Tag2B Mammalian Expression Vector	7.5
		pCMV-Tag2C Mammalian Expression Vector	7.5
		pCMV-Tag2 Control Mammalian Expression Vector	7.5
		XL1-Blue E. coli Strain	7.5
Melting point	:	pCMV-Tag2A Mammalian Expression Vector	0°C (32°F)
		pCMV-Tag2B Mammalian Expression Vector	0°C (32°F)
		pCMV-Tag2C Mammalian Expression Vector	0°C (32°F)
		pCMV-Tag2 Control Mammalian Expression Vector	0°C (32°F)
		XL1-Blue E. coli Strain	Not available.
Boiling point	:	pCMV-Tag2A Mammalian Expression Vector	100°C (212°F)
		pCMV-Tag2B Mammalian Expression Vector	100°C (212°F)
		pCMV-Tag2C Mammalian Expression Vector	100°C (212°F)
		pCMV-Tag2 Control Mammalian Expression Vector	100°C (212°F)
		XL1-Blue E. coli Strain	Not available.

Section 9. Physical and chemical properties

Flash point	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Evaporation rate	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Flammability (solid, gas)	:	pCMV-Tag2A Mammalian Expression Vector	Not applicable.
		pCMV-Tag2B Mammalian Expression Vector	Not applicable.
		pCMV-Tag2C Mammalian Expression Vector	Not applicable.
		pCMV-Tag2 Control Mammalian Expression Vector	Not applicable.
		XL1-Blue E. coli Strain	Not applicable.
Lower and upper explosive (flammable) limits	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Vapour pressure	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Vapour density	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.

Section 9. Physical and chemical properties

Relative density	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Solubility	:	pCMV-Tag2A Mammalian Expression Vector	Easily soluble in the following materials: cold water and hot water.
		pCMV-Tag2B Mammalian Expression Vector	Easily soluble in the following materials: cold water and hot water.
		pCMV-Tag2C Mammalian Expression Vector	Easily soluble in the following materials: cold water and hot water.
		pCMV-Tag2 Control Mammalian Expression Vector	Easily soluble in the following materials: cold water and hot water.
		XL1-Blue E. coli Strain	Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Auto-ignition temperature	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Decomposition temperature	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.
Viscosity	:	pCMV-Tag2A Mammalian Expression Vector	Not available.
		pCMV-Tag2B Mammalian Expression Vector	Not available.
		pCMV-Tag2C Mammalian Expression Vector	Not available.
		pCMV-Tag2 Control Mammalian Expression Vector	Not available.
		XL1-Blue E. coli Strain	Not available.

Section 10. Stability and reactivity

Reactivity	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue 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. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue E. coli Strain	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
Possibility of hazardous reactions	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue 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. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue E. coli Strain	No specific data. No specific data. No specific data. No specific data. No specific data.
Incompatible materials	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue E. coli Strain	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

Section 10. Stability and reactivity

Hazardous decomposition products	: pCMV-Tag2A Mammalian Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCMV-Tag2B Mammalian Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCMV-Tag2C Mammalian Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCMV-Tag2 Control Mammalian Expression Vector	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 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on likely routes of exposure	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue E. coli Strain	Not available. Not available. Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects		
Eye contact	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue 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.
Inhalation	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue 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.
Skin contact	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue 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.
Ingestion	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression Vector XL1-Blue 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: pCMV-Tag2A Mammalian Expression Vector pCMV-Tag2B Mammalian Expression Vector pCMV-Tag2C Mammalian Expression Vector pCMV-Tag2 Control Mammalian Expression	No specific data. No specific data. No specific data. No specific data.
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Section 11. Toxicological information

	Vector	
	XL1-Blue E. coli Strain	No specific data.
Inhalation	: pCMV-Tag2A Mammalian Expression Vector	No specific data.
	pCMV-Tag2B Mammalian Expression Vector	No specific data.
	pCMV-Tag2C Mammalian Expression Vector	No specific data.
	pCMV-Tag2 Control Mammalian Expression Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
Skin contact	: pCMV-Tag2A Mammalian Expression Vector	No specific data.
	pCMV-Tag2B Mammalian Expression Vector	No specific data.
	pCMV-Tag2C Mammalian Expression Vector	No specific data.
	pCMV-Tag2 Control Mammalian Expression Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
Ingestion	: pCMV-Tag2A Mammalian Expression Vector	No specific data.
	pCMV-Tag2B Mammalian Expression Vector	No specific data.
	pCMV-Tag2C Mammalian Expression Vector	No specific data.
	pCMV-Tag2 Control Mammalian Expression Vector	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

Not available.

General	: pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

Section 11. Toxicological information

Carcinogenicity	: pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Mutagenicity	: pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Teratogenicity	: pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Developmental effects	: pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Fertility effects	: pCMV-Tag2A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2 Control Mammalian Expression Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> L1-Blue E. coli Strain Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> L1-Blue E. coli Strain Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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

Regulatory information

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

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

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

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Australia inventory (AICS) : All components are listed or exempted.

International regulations

Section 15. Regulatory information

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Canada	: Not determined.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: <input checked="" type="checkbox"/> Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: <input checked="" type="checkbox"/> Not determined.
New Zealand	: <input checked="" type="checkbox"/> All components are listed or exempted.
Philippines	: <input checked="" type="checkbox"/> Not determined.
Republic of Korea	: <input checked="" type="checkbox"/> All components are listed or exempted.
Taiwan	: <input checked="" type="checkbox"/> All components are listed or exempted.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: <input checked="" type="checkbox"/> All components are listed or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 23/03/2017

Date of previous issue : 02/10/2014.

Version : 4

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

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Section 16. Any other relevant information

[Notice to reader](#)

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