

# SAFETY DATA SHEET



pCMV-Tag3 Epitope Tagging Mammalian Expression Vectors, Part Number 211173

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

### 1.1 Product identifier

<b>Product name</b>	:	pCMV-Tag3 Epitope Tagging Mammalian Expression Vectors, Part Number 211173	
<b>Part no. (chemical kit)</b>	:	211173	
<b>Part no.</b>	:	pCMV-Tag3A Mammalian Expression Vector	211173-51
	:	pCMV-Tag 3B Mammalian Expression Vector	211173-52
	:	pCMV-Tag 3C Mammalian Expression Vector	211173-53
	:	pCMV-Tag 3 Expression Control Plasmid	211173-54
	:	XL1-Blue E. coli Strain	200268-81

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

<b>Material uses</b>	:	Analytical reagent.	
	:	pCMV-Tag3A Mammalian Expression Vector	20 µl (20 µg 1 µg/µl)
	:	pCMV-Tag 3B Mammalian Expression Vector	20 µl (20 µg 1 µg/µl)
	:	pCMV-Tag 3C Mammalian Expression Vector	20 µl (20 µg 1 µg/µl)
	:	pCMV-Tag 3 Expression Control Plasmid	20 µl (20 µg 1 µg/µl)
	:	XL1-Blue E. coli Strain	500 µl

### 1.3 Details of the supplier of the safety data sheet

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

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	:	pCMV-Tag3A Mammalian Expression Vector	Mixture
	:	pCMV-Tag 3B Mammalian Expression Vector	Mixture
	:	pCMV-Tag 3C	Mixture

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## SECTION 2: Hazards identification

Mammalian Expression  
Vector  
pCMV-Tag 3 Expression Mixture  
Control Plasmid  
XL1-Blue E. coli Strain Mixture

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

Not classified.

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

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** :  pCMV-Tag3A Mammalian Expression Vector No signal word.  
 pCMV-Tag 3B Mammalian Expression Vector No signal word.  
 pCMV-Tag 3C Mammalian Expression Vector No signal word.  
 pCMV-Tag 3 Expression Control Plasmid XL1-Blue E. coli Strain No signal word.

**Hazard statements** :  pCMV-Tag3A Mammalian Expression Vector No known significant effects or critical hazards.  
 pCMV-Tag 3B Mammalian Expression Vector No known significant effects or critical hazards.  
 pCMV-Tag 3C Mammalian Expression Vector No known significant effects or critical hazards.  
 pCMV-Tag 3 Expression Control Plasmid XL1-Blue E. coli Strain No known significant effects or critical hazards.

### Precautionary statements

**Prevention** :  pCMV-Tag3A Mammalian Expression Vector Not applicable.  
 pCMV-Tag 3B Mammalian Expression Vector Not applicable.  
 pCMV-Tag 3C Mammalian Expression Vector Not applicable.  
 pCMV-Tag 3 Expression Control Plasmid XL1-Blue E. coli Strain Not applicable.

**Response** :  pCMV-Tag3A Mammalian Expression Vector Not applicable.  
 pCMV-Tag 3B Mammalian Expression Vector Not applicable.  
 pCMV-Tag 3C Mammalian Expression Vector Not applicable.

## SECTION 2: Hazards identification

		Mammalian Expression Vector	
		pCMV-Tag 3 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	Not applicable.
<b>Storage</b>	:	pCMV-Tag3A Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3B Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3C Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	Not applicable.
<b>Disposal</b>	:	pCMV-Tag3A Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3B Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3C Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	Not applicable.
<b>Hazardous ingredients</b>	:	XL1-Blue E. coli Strain	Not applicable.
<b>Supplemental label elements</b>	:	pCMV-Tag3A Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3B Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3C Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	Safety data sheet available on request.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	:	pCMV-Tag3A Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3B Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3C Mammalian Expression Vector	Not applicable.
		pCMV-Tag 3 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	Not applicable.
<b>Special packaging requirements</b>			

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<b>Tactile warning of danger</b>	: pCMV-Tag3A Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3B Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3C Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3 Expression Control Plasmid	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.

**2.3 Other hazards**

<b>Other hazards which do not result in classification</b>	: pCMV-Tag3A Mammalian Expression Vector	None known.
	pCMV-Tag 3B Mammalian Expression Vector	None known.
	pCMV-Tag 3C Mammalian Expression Vector	None known.
	pCMV-Tag 3 Expression Control Plasmid	None known.
	XL1-Blue E. coli Strain	None known.

**SECTION 3: Composition/information on ingredients**

<b>3.1 Substances</b>	: pCMV-Tag3A Mammalian Expression Vector	Mixture
	pCMV-Tag 3B Mammalian Expression Vector	Mixture
	pCMV-Tag 3C Mammalian Expression Vector	Mixture
	pCMV-Tag 3 Expression Control Plasmid	Mixture
	XL1-Blue E. coli Strain	Mixture

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

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

Type

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: pCMV-Tag3A Mammalian Expression Vector pCMV-Tag 3B Mammalian Expression Vector pCMV-Tag 3C Mammalian Expression Vector pCMV-Tag 3 Expression Control Plasmid  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. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: pCMV-Tag3A Mammalian Expression Vector pCMV-Tag 3B Mammalian Expression Vector pCMV-Tag 3C Mammalian Expression Vector pCMV-Tag 3 Expression Control Plasmid  XL1-Blue E. coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: pCMV-Tag3A Mammalian Expression Vector pCMV-Tag 3B Mammalian Expression Vector pCMV-Tag 3C Mammalian Expression Vector pCMV-Tag 3 Expression Control Plasmid  XL1-Blue E. coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: pCMV-Tag3A Mammalian Expression Vector  pCMV-Tag 3B Mammalian Expression Vector  pCMV-Tag 3C Mammalian Expression Vector	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

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		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-Tag 3 Expression Control Plasmid	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.
	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.
<b>Protection of first-aiders</b>	: pCMV-Tag3A Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	: pCMV-Tag 3B Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	: pCMV-Tag 3C Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	: pCMV-Tag 3 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.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	: pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	: pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
	: pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.
	: XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Inhalation</b>	: pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	: pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	: pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
	: pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.
	: XL1-Blue E. coli Strain	No known significant effects or critical hazards.

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<b>Skin contact</b>	:	pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag 3 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-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
		pCMV-Tag 3 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-Tag3A Mammalian Expression Vector	No specific data.
		pCMV-Tag 3B Mammalian Expression Vector	No specific data.
		pCMV-Tag 3C Mammalian Expression Vector	No specific data.
		pCMV-Tag 3 Expression Control Plasmid	No specific data.
		XL1-Blue E. coli Strain	No specific data.
<b>Inhalation</b>	:	pCMV-Tag3A Mammalian Expression Vector	No specific data.
		pCMV-Tag 3B Mammalian Expression Vector	No specific data.
		pCMV-Tag 3C Mammalian Expression Vector	No specific data.
		pCMV-Tag 3 Expression Control Plasmid	No specific data.
		XL1-Blue E. coli Strain	No specific data.
<b>Skin contact</b>	:	pCMV-Tag3A Mammalian Expression Vector	No specific data.
		pCMV-Tag 3B Mammalian Expression Vector	No specific data.
		pCMV-Tag 3C Mammalian Expression Vector	No specific data.
		pCMV-Tag 3 Expression Control Plasmid	No specific data.
		XL1-Blue E. coli Strain	No specific data.



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<b>Ingestion</b>	:	pCMV-Tag3A Mammalian Expression Vector	No specific data.
		pCMV-Tag 3B Mammalian Expression Vector	No specific data.
		pCMV-Tag 3C Mammalian Expression Vector	No specific data.
		pCMV-Tag 3 Expression Control Plasmid	No specific data.
		XL1-Blue E. coli Strain	No specific data.

**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	:	pCMV-Tag3A Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pCMV-Tag 3B Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pCMV-Tag 3C Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pCMV-Tag 3 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-Tag3A Mammalian Expression Vector	No specific treatment.
		pCMV-Tag 3B Mammalian Expression Vector	No specific treatment.
		pCMV-Tag 3C Mammalian Expression Vector	No specific treatment.
		pCMV-Tag 3 Expression Control Plasmid	No specific treatment.
		XL1-Blue E. coli Strain	No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	:	pCMV-Tag3A Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
		pCMV-Tag 3B Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
		pCMV-Tag 3C Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
		pCMV-Tag 3 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.



## SECTION 5: Firefighting measures

<b>Unsuitable extinguishing media</b>	: pCMV-Tag3A Mammalian Expression Vector	None known.
	: pCMV-Tag 3B Mammalian Expression Vector	None known.
	: pCMV-Tag 3C Mammalian Expression Vector	None known.
	: pCMV-Tag 3 Expression Control Plasmid	None known.
	: XL1-Blue E. coli Strain	None known.

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

<b>Hazards from the substance or mixture</b>	: pCMV-Tag3A Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	: pCMV-Tag 3B Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	: pCMV-Tag 3C Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	: pCMV-Tag 3 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 combustion products</b>	: pCMV-Tag3A Mammalian Expression Vector	No specific data.
	: pCMV-Tag 3B Mammalian Expression Vector	No specific data.
	: pCMV-Tag 3C Mammalian Expression Vector	No specific data.
	: pCMV-Tag 3 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

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: pCMV-Tag3A 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-Tag 3B 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-Tag 3C 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-Tag 3 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 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.

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**SECTION 5: Firefighting measures**

<b>Special protective equipment for fire-fighters</b>	: pCMV-Tag3A 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	pCMV-Tag 3B 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	pCMV-Tag 3C 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	pCMV-Tag 3 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	XL1-Blue 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures**

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

<b>For non-emergency personnel</b>	: pCMV-Tag3A 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-Tag 3B 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-Tag 3C 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-Tag 3 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. Put on appropriate personal protective equipment.

## SECTION 6: Accidental release measures

<b>For emergency responders</b>	: pCMV-Tag3A 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-Tag 3B 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-Tag 3C 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-Tag 3 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>6.2 Environmental precautions</b>	: pCMV-Tag3A 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-Tag 3B 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-Tag 3C 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-Tag 3 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).
<b>6.3 Methods and material for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: pCMV-Tag3A 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-Tag 3B 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-Tag 3C 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-Tag 3 Expression Control Plasmid	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and

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**SECTION 6: Accidental release measures**

XL1-Blue E. coli Strain 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.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures** : pCMV-Tag3A Mammalian Expression Vector Put on appropriate personal protective equipment (see Section 8).  
pCMV-Tag 3B Mammalian Expression Vector Put on appropriate personal protective equipment (see Section 8).  
pCMV-Tag 3C Mammalian Expression Vector Put on appropriate personal protective equipment (see Section 8).  
pCMV-Tag 3 Expression Control Plasmid Put on appropriate personal protective equipment (see Section 8).  
XL1-Blue E. coli Strain Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : pCMV-Tag3A 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-Tag 3B 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-Tag 3C 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-Tag 3 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 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 and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities**

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

## SECTION 7: Handling and storage

<b>Storage</b>	:	pCMV-Tag3A 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-Tag 3B 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-Tag 3C 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-Tag 3 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 environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

<b>Recommendations</b>	:	pCMV-Tag3A Mammalian Expression Vector	Industrial applications, Professional applications.
		pCMV-Tag 3B Mammalian Expression Vector	Industrial applications, Professional applications.
		pCMV-Tag 3C Mammalian Expression Vector	Industrial applications, Professional applications.



## SECTION 7: Handling and storage

<b>Industrial sector specific solutions</b>	pCMV-Tag 3 Expression Control Plasmid	Industrial applications, Professional applications.
	XL1-Blue E. coli Strain	Industrial applications, Professional applications.
	pCMV-Tag3A Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3B Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3C Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3 Expression Control Plasmid	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

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

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

## SECTION 8: Exposure controls/personal protection

### Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : pCMV-Tag3A Liquid.  
Mammalian Expression Vector  
pCMV-Tag 3B Liquid.  
Mammalian Expression Vector  
pCMV-Tag 3C Liquid.  
Mammalian Expression Vector  
pCMV-Tag 3 Expression Control Plasmid  
XL1-Blue E. coli Strain Liquid.
- Colour** : pCMV-Tag3A Not available.  
Mammalian Expression Vector  
pCMV-Tag 3B Not available.  
Mammalian Expression Vector  
pCMV-Tag 3C Not available.  
Mammalian Expression Vector  
pCMV-Tag 3 Expression Control Plasmid  
XL1-Blue E. coli Strain Not available.
- Odour** : pCMV-Tag3A Not available.  
Mammalian Expression Vector  
pCMV-Tag 3B Not available.  
Mammalian Expression Vector  
pCMV-Tag 3C Not available.  
Mammalian Expression Vector  
pCMV-Tag 3 Expression Control Not available.



## SECTION 9: Physical and chemical properties

	Plasmid	
	XL1-Blue E. coli Strain	Not available.
<b>Odour threshold</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.
	pCMV-Tag 3 Expression Control	Not available.
	Plasmid	
	XL1-Blue E. coli Strain	Not available.
<b>pH</b>	: pCMV-Tag3A Mammalian Expression Vector	7.5
	pCMV-Tag 3B Mammalian Expression Vector	7.5
	pCMV-Tag 3C Mammalian Expression Vector	7.5
	pCMV-Tag 3 Expression Control	7.5
	Plasmid	
	XL1-Blue E. coli Strain	7.5
<b>Melting point/freezing point</b>	: pCMV-Tag3A Mammalian Expression Vector	0°C
	pCMV-Tag 3B Mammalian Expression Vector	0°C
	pCMV-Tag 3C Mammalian Expression Vector	0°C
	pCMV-Tag 3 Expression Control	0°C
	Plasmid	
	XL1-Blue E. coli Strain	Not available.
<b>Initial boiling point and boiling range</b>	: pCMV-Tag3A Mammalian Expression Vector	100°C
	pCMV-Tag 3B Mammalian Expression Vector	100°C
	pCMV-Tag 3C Mammalian Expression Vector	100°C
	pCMV-Tag 3 Expression Control	100°C
	Plasmid	
	XL1-Blue E. coli Strain	Not available.

## SECTION 9: Physical and chemical properties

<b>Flash point</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.
	pCMV-Tag 3 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Evaporation rate</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.
	pCMV-Tag 3 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Flammability (solid, gas)</b>	: pCMV-Tag3A Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3B Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3C Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3 Expression Control Plasmid	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.
	pCMV-Tag 3 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Vapour pressure</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression	Not available.

## SECTION 9: Physical and chemical properties

		Vector	
		pCMV-Tag 3	Not available.
		Expression Control	
		Plasmid	
		XL1-Blue E. coli Strain	Not available.
<b>Vapour density</b>	:	pCMV-Tag3A	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3B	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3C	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3	Not available.
		Expression Control	
		Plasmid	
		XL1-Blue E. coli Strain	Not available.
<b>Relative density</b>	:	pCMV-Tag3A	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3B	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3C	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3	Not available.
		Expression Control	
		Plasmid	
		XL1-Blue E. coli Strain	Not available.
<b>Solubility(ies)</b>	:	pCMV-Tag3A	Easily soluble in the following materials: cold water and hot water.
		Mammalian Expression Vector	
		pCMV-Tag 3B	Easily soluble in the following materials: cold water and hot water.
		Mammalian Expression Vector	
		pCMV-Tag 3C	Easily soluble in the following materials: cold water and hot water.
		Mammalian Expression Vector	
		pCMV-Tag 3	Easily soluble in the following materials: cold water and hot water.
		Expression Control	
		Plasmid	
		XL1-Blue E. coli Strain	Soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	:	pCMV-Tag3A	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3B	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3C	Not available.
		Mammalian Expression Vector	
		pCMV-Tag 3	Not available.
		Expression Control	
		Plasmid	
		XL1-Blue E. coli Strain	Not available.

## SECTION 9: Physical and chemical properties

<b>Auto-ignition temperature</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.
	pCMV-Tag 3 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Decomposition temperature</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.
	pCMV-Tag 3 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Viscosity</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.
	pCMV-Tag 3 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Explosive properties</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.
	pCMV-Tag 3 Expression Control Plasmid	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Oxidising properties</b>	: pCMV-Tag3A Mammalian Expression Vector	Not available.
	pCMV-Tag 3B Mammalian Expression Vector	Not available.
	pCMV-Tag 3C Mammalian Expression Vector	Not available.

## SECTION 9: Physical and chemical properties

pCMV-Tag 3 Expression Control Plasmid	Not available.
XL1-Blue E. coli Strain	Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: pCMV-Tag3A Mammalian Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
	pCMV-Tag 3B Mammalian Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
	pCMV-Tag 3C Mammalian Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
	pCMV-Tag 3 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.
<b>10.2 Chemical stability</b>	: pCMV-Tag3A Mammalian Expression Vector	The product is stable.
	pCMV-Tag 3B Mammalian Expression Vector	The product is stable.
	pCMV-Tag 3C Mammalian Expression Vector	The product is stable.
	pCMV-Tag 3 Expression Control Plasmid	The product is stable.
	XL1-Blue E. coli Strain	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: pCMV-Tag3A Mammalian Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV-Tag 3B Mammalian Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV-Tag 3C Mammalian Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV-Tag 3 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>10.4 Conditions to avoid</b>	: pCMV-Tag3A Mammalian Expression Vector	No specific data.
	pCMV-Tag 3B Mammalian Expression Vector	No specific data.
	pCMV-Tag 3C Mammalian Expression Vector	No specific data.

## SECTION 10: Stability and reactivity

pCMV-Tag 3 Expression Control Plasmid No specific data.  
 XL1-Blue E. coli Strain No specific data.

**10.5 Incompatible materials** :

- pCMV-Tag3A Mammalian Expression Vector May react or be incompatible with oxidising materials.
- pCMV-Tag 3B Mammalian Expression Vector May react or be incompatible with oxidising materials.
- pCMV-Tag 3C Mammalian Expression Vector May react or be incompatible with oxidising materials.
- pCMV-Tag 3 Expression Control Plasmid May react or be incompatible with oxidising materials.
- XL1-Blue E. coli Strain May react or be incompatible with oxidising materials.

**10.6 Hazardous decomposition products** :

- pCMV-Tag3A Mammalian Expression Vector Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- pCMV-Tag 3B Mammalian Expression Vector Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- pCMV-Tag 3C Mammalian Expression Vector Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- pCMV-Tag 3 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

### 11.1 Information on toxicological effects

#### Acute toxicity

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

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

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

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

## SECTION 11: Toxicological information

**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-Tag3A Mammalian Expression Vector	Not available.
pCMV-Tag 3B Mammalian Expression Vector	Not available.
pCMV-Tag 3C Mammalian Expression Vector	Not available.
pCMV-Tag 3 Expression Control Plasmid	Not available.
XL1-Blue E. coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

#### Inhalation

pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.
XL1-Blue E. coli Strain	No known significant effects or critical hazards.

#### Ingestion

pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.
XL1-Blue E. coli Strain	No known significant effects or critical hazards.

#### Skin contact

pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.



## SECTION 11: Toxicological information

	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Eye contact</b>	: pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3 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>Inhalation</b>	: pCMV-Tag3A Mammalian Expression Vector	No specific data.
	pCMV-Tag 3B Mammalian Expression Vector	No specific data.
	pCMV-Tag 3C Mammalian Expression Vector	No specific data.
	pCMV-Tag 3 Expression Control Plasmid	No specific data.
<b>Ingestion</b>	: XL1-Blue E. coli Strain	No specific data.
	: pCMV-Tag3A Mammalian Expression Vector	No specific data.
	pCMV-Tag 3B Mammalian Expression Vector	No specific data.
	pCMV-Tag 3C Mammalian Expression Vector	No specific data.
	pCMV-Tag 3 Expression Control Plasmid	No specific data.
<b>Skin contact</b>	: XL1-Blue E. coli Strain	No specific data.
	: pCMV-Tag3A Mammalian Expression Vector	No specific data.
	pCMV-Tag 3B Mammalian Expression Vector	No specific data.
	pCMV-Tag 3C Mammalian Expression Vector	No specific data.
	pCMV-Tag 3 Expression Control Plasmid	No specific data.
<b>Eye contact</b>	: XL1-Blue E. coli Strain	No specific data.
	: pCMV-Tag3A Mammalian Expression Vector	No specific data.
	pCMV-Tag 3B Mammalian Expression Vector	No specific data.
	pCMV-Tag 3C Mammalian Expression Vector	No specific data.
	pCMV-Tag 3 Expression	No specific data.

## SECTION 11: Toxicological information

Control Plasmid  
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-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3 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-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3 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-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3C Mammalian Expression	No known significant effects or critical hazards.

## SECTION 11: Toxicological information

	Vector	
	pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Developmental effects</b>	: pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Fertility effects</b>	: pCMV-Tag3A Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3B Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3C Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 3 Expression Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
XL1-Blue E. coli Strain Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

## SECTION 12: Ecological information

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

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

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

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

#### Packaging

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

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

## SECTION 14: Transport information

**ADR/RID / IMDG / IATA** : Not regulated.

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

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

## SECTION 15: Regulatory information

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

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

##### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

## SECTION 15: Regulatory information

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: pCMV-Tag3A Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3B Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3C Mammalian Expression Vector	Not applicable.
	pCMV-Tag 3 Expression Control Plasmid	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.

### Other EU regulations

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

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

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

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

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

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

Classification	Justification
Not classified.	

### Full text of abbreviated H statements

<b>XL1-Blue E. coli Strain</b> H319	Causes serious eye irritation.
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### Full text of classifications [CLP/GHS]

<b>XL1-Blue E. coli Strain</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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**Version** : 2

#### Notice to reader

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