SAFETY DATA SHEET



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

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

1.1 Product identifier

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

Part no. (chemical kit) : 211174

Part no. : pCMV-Tag4A 211174-51

Mammalian Expression

Vector

pCMV-Tag4B 211174-52

. Mammalian Expression

Vector

pCMV-Tag4C 211174-53

Mammalian Expression

Vector

pCMV-Tag4 Expression 211174-54

Control Plasmid

XL1-Blue E. coli Strain 200268-81

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

Identified uses : Knalytical reagent.

pCMV-Tag4A Mammalian Expression Vector
pCMV-Tag4B Mammalian Expression Vector
pCMV-Tag4C Mammalian Expression Vector
pCMV-Tag4 Expression Control Plasmid20 μl (20 μg
20 μl (20 μg
20 μl (20 μg
20 μl (20 μg
1 μg/μl)

XL1-Blue E. coli Strain 500 μl

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of

: CHEMTREC®: +(44)-870-8200418

operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : pCMV-Tag4A Mixture

Mammalian Expression

Vector

pCMV-Tag4B Mixture

Mammalian Expression

Vector

pCMV-Tag4C Mixture

Mammalian Expression

Vector

pCMV-Tag4 Expression Mixture

Control Plasmid

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SECTION 2: Hazards identification

XL1-Blue E. coli Strain Mixture

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

Not classified.

CMV-Tag4A Mammalian Expression Vector The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

pCMV-Tag4B Mammalian Expression Vector The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

pCMV-Tag4C Mammalian Expression Vector The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

pCMV-Tag4 Expression Control Plasmid The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

XL1-Blue E. coli Strain The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity

: XL1-Blue E. coli Strain

Percentage of the mixture consisting of ingredient(s) of

unknown acute 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

: pCMV-Tag4A Signal word No signal word.

Mammalian Expression

Vector

pCMV-Tag4B No signal word.

Mammalian Expression

Vector

pCMV-Tag4C No signal word.

Mammalian Expression

Vector

pCMV-Tag4 Expression No signal word.

Control Plasmid

XL1-Blue E. coli Strain No signal word.

Hazard statements : pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

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.

Precautionary statements

Prevention : pCMV-Tag4A Not applicable.

Mammalian Expression

Vector pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

Not applicable.

Not applicable.

Not applicable.

Not applicable.

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SECTION 2: Hazards identification

: pCMV-Tag4A Not applicable. Response

Mammalian Expression

Vector

pCMV-Tag4B Not applicable.

Mammalian Expression

Vector

pCMV-Tag4C Not applicable.

Mammalian Expression

Vector

pCMV-Tag4 Expression

Not applicable.

Control Plasmid

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

Storage : pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B Not applicable.

Mammalian Expression

Vector

pCMV-Tag4C

Not applicable.

Mammalian Expression

Vector

pCMV-Tag4 Expression

Not applicable.

Control Plasmid

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

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Not applicable. Mammalian Expression

Vector

pCMV-Tag4C Not applicable.

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

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

Supplemental label elements

Disposal

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Not applicable.

Mammalian Expression

Vector

pCMV-Tag4C

Not applicable.

Not applicable.

Mammalian Expression

Vector

pCMV-Tag4 Expression Control Plasmid

Not applicable.

Not applicable.

XL1-Blue E. coli Strain

Safety data sheet available on request.

Annex XVII - Restrictions : on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B Not applicable.

Mammalian Expression

Vector

pCMV-Tag4C Not applicable.

Mammalian Expression

Vector

pCMV-Tag4 Expression Not applicable.

Control Plasmid

XL1-Blue E. coli Strain Not applicable.

Special packaging requirements

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SECTION 2: Hazards identification

Containers to be fitted with child-resistant fastenings

Tactile warning of

danger

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain : pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, **Annex XIII**

: pCMV-Tag4A

Mammalian Expression Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

XL1-Blue E. coli Strain

Control Plasmid

None known.

None known.

None known.

None known.

None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

: pCMV-Tag4A Mammalian

Expression Vector

pCMV-Tag4B Mammalian

Expression Vector

pCMV-Tag4C Mammalian

Expression Vector

pCMV-Tag4 Expression Control

Plasmid

XL1-Blue E. coli Strain

Mixture

Mixture

Mixture

Mixture

Mixture

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре
KL1-Blue E. coli Strain Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified. See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

XL1-Blue E. coli Strain

[1] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

pCMV-Tag4 Expression

Control Plasmid

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.

XL1-Blue E. coli Strain

Inhalation

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

occur.

Skin contact

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

pCMV-Tag4 Expression Control Plasmid

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.

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SECTION 4: First aid measures

XL1-Blue E. coli Strain

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

symptoms occur.

Ingestion

: pCMV-Tag4A

Mammalian Expression

Vector

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

occur.

pCMV-Tag4B

Mammalian Expression

Vector

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

pCMV-Tag4C

Mammalian Expression

Vector

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

occur.

pCMV-Tag4 Expression Control Plasmid

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

XL1-Blue E. coli Strain

Wash out mouth with water. 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.

Protection of first-aiders

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

No action shall be taken involving any personal risk or without

suitable training.

No action shall be taken involving any personal risk or without

suitable training.

No action shall be taken involving any personal risk or without

suitable training.

No action shall be taken involving any personal risk or without

suitable training.

No action shall be taken involving any personal risk or without

suitable training.

4.2 Most important symptoms and effects, both acute and delayed Over-exposure signs/symptoms

Eye contact

: pCMV-Tag4A

Mammalian Expression

No specific data.

Vector

pCMV-Tag4B

No specific data.

Mammalian Expression

Vector

pCMV-Tag4C

No specific data.

No specific data.

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain No specific data.

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SECTION 4: First aid measures

Skin contact

Ingestion

Inhalation pCMV-Tag4A No specific data.

Mammalian Expression

Vector

pCMV-Tag4B No specific data.

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

: pCMV-Tag4A No specific data.

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

: pCMV-Tag4A

Mammalian Expression

Vector pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically. Contact poison treatment specialist : pCMV-Tag4A Mammalian Expression immediately if large quantities have been ingested or inhaled.

> Vector pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

No specific treatment.

pCMV-Tag4A **Specific treatments** No specific treatment.

Mammalian Expression Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C Mammalian Expression

Vector

pCMV-Tag4 Expression

No specific treatment.

No specific treatment.

Control Plasmid

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SECTION 4: First aid measures

XL1-Blue E. coli Strain

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

media

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

Unsuitable extinguishing : pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

None known.

None known.

None known.

None known.

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

container may burst.

In a fire or if heated, a pressure increase will occur and the

In a fire or if heated, a pressure increase will occur and the

In a fire or if heated, a pressure increase will occur and the

In a fire or if heated, a pressure increase will occur and the

In a fire or if heated, a pressure increase will occur and the

container may burst.

container may burst.

container may burst.

container may burst.

Hazardous combustion products

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

No specific data.

No specific data.

No specific data.

No specific data.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

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SECTION 5: Firefighting measures

Special protective actions for fire-fighters : pCMV-Tag4A Mammalian Expression Vector pCMV-Tag4B Mammalian Expression Vector pCMV-Tag4C Mammalian Expression pCMV-Tag4 Expression . Control Plasmid

XL1-Blue E. coli Strain

Special protective equipment for firefighters

: pCMV-Tag4A Mammalian Expression Vector pCMV-Tag4B Mammalian Expression Vector pCMV-Tag4C Mammalian Expression Vector pCMV-Tag4 Expression Control Plasmid

XL1-Blue E. coli Strain

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. 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. 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. 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. 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.

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

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

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

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: pCMV-Tag4A Mammalian Expression Vector

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

pCMV-Tag4B Mammalian Expression

Vector

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

pCMV-Tag4C Mammalian Expression Vector

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

pCMV-Tag4 Expression Control Plasmid

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

XL1-Blue E. coli Strain

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

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SECTION 6: Accidental release measures

For emergency responders

: pCMV-Tag4A Mammalian Expression Vector

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

pCMV-Tag4B

Mammalian Expression

Vector

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

pCMV-Tag4C

Mammalian Expression

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 nonemergency personnel".

pCMV-Tag4 Expression Control Plasmid

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

6.2 Environmental precautions

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

(sewers, waterways, soil or air). 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).

Avoid dispersal of spilt material and runoff and contact with

authorities if the product has caused environmental pollution

soil, waterways, drains and sewers. Inform the relevant

pCMV-Tag4C Mammalian Expression

Vector

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

pCMV-Tag4 Expression Control Plasmid

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

XL1-Blue E. coli Strain

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

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: pCMV-Tag4A

Mammalian Expression

Vector

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

pCMV-Tag4B

Mammalian Expression

Vector

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

pCMV-Tag4C Mammalian Expression

Vector

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.

pCMV-Tag4 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 place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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SECTION 6: Accidental release measures

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.

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-Tag4A Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

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

Put on appropriate personal protective equipment (see

Section 8).

Put on appropriate personal protective equipment (see

Section 8).

Put on appropriate personal protective equipment (see

Section 8).

Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene : pCMV-Tag4A

Mammalian Expression

Vector

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

pCMV-Tag4B

Mammalian Expression

Vector

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

pCMV-Tag4C

Mammalian Expression

Vector

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

pCMV-Tag4 Expression Control Plasmid

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for 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

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SECTION 7: Handling and storage

Storage

: pCMV-Tag4A Mammalian Expression Vector Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

pCMV-Tag4B Mammalian Expression Vector Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

pCMV-Tag4C Mammalian Expression Vector Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

pCMV-Tag4 Expression Control Plasmid

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

XL1-Blue E. coli Strain

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

7.3 Specific end use(s)
Recommendations

: pCMV-Tag4A Mammalian Expression

Vector

sion

Industrial applications, Professional applications.

Industrial applications, Professional applications.

pCMV-Tag4B Mammalian Expression

Mammalian Expression Vector

pCMV-Tag4C Mammalian Expression

Vector

Industrial applications, Professional applications.

pCMV-Tag4 Expression Industrial applications, Professional applications.

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SECTION 7: Handling and storage

Control Plasmid

XL1-Blue E. coli Strain Industrial applications, Professional applications.

Industrial sector specific solutions

pCMV-Tag4A

Not available. Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Not available.

Not available.

Mammalian Expression

pCMV-Tag4 Expression

Not available.

Control Plasmid

XL1-Blue E. coli Strain Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
₹L1-Blue E. coli Strain Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
XL1-Blue E. coli Strain					
Glycerol	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Inhalation	56 mg/m³	Workers	Local
	DNEL	Long term Oral	229 mg/kg bw/day	General population	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Sood 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 sideshields.

Skin protection

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SECTION 8: Exposure controls/personal protection

Hand protection : ☑hemical-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

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

9.1 Information on basic physical and chemical properties

Appearance

Odour

Physical state : pCMV-Tag4A Liquid.

Mammalian Expression

Vector

pCMV-Tag4B Liquid.

Mammalian Expression

Vector

pCMV-Tag4C Liquid.

Mammalian Expression

Vector

pCMV-Tag4 Expression Liquid.

. Control Plasmid

XL1-Blue E. coli Strain Liquid.

Colour: pCMV-Tag4A Not available.

Mammalian Expression

Vector

pCMV-Tag4B Not available.

Mammalian Expression

Vector

pCMV-Tag4C Not available.

Mammalian Expression

Vector

pCMV-Tag4 Expression Not

Not available.

Not available.

Control Plasmid

XL1-Blue E. coli Strain Not available.

pCMV-Tag4A Mammalian Expression

Vector

pCMV-Tag4B Not available.

Mammalian Expression

Vector

pCMV-Tag4C Not available.

Mammalian Expression

Vector

pCMV-Tag4 Expression Not available.

Control Plasmid

XL1-Blue E. coli Strain Not available.

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SECTION 9: Physical and chemical properties

Odour threshold pCMV-Tag4A Not available.

> Mammalian Expression Vector

pCMV-Tag4B

Not available.

Mammalian Expression

Vector

Not available. pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Not available.

Control Plasmid

XL1-Blue E. coli Strain Not available.

Melting point/freezing point

: pCMV-Tag4A

0°C

Mammalian Expression

pCMV-Tag4B $0^{\circ}C$

Mammalian Expression

Vector

pCMV-Tag4C 0°C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain Not available.

Initial boiling point and boiling range

: pCMV-Tag4A

100°C

0°C

Mammalian Expression Vector

pCMV-Tag4B 100°C

Mammalian Expression

Vector

pCMV-Tag4C 100°C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

Not available. Not applicable.

100°C

Flammability pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Not applicable.

Mammalian Expression

Vector

pCMV-Tag4C

Not applicable.

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

Not applicable.

XL1-Blue E. coli Strain

Not applicable.

Upper/lower flammability: pCMV-Tag4A

or explosive limits

Not available.

Mammalian Expression

Vector

pCMV-Tag4B

Not available.

Mammalian Expression

Vector

pCMV-Tag4C

Not available.

Mammalian Expression

Vector

pCMV-Tag4 Expression Not available.

Control Plasmid

XL1-Blue E. coli Strain Not available.

Flash point

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SECTION 9: Physical and chemical properties

					Clos	sed cup	Open cup		
		Ingredient name		°C		Method	°C	Method	
		XL1-Blue E. coli Strain							
		glycerol		_		ı -	177	_	
Auto-ignition	:	Ingredient name			°C		Metho	od	
emperature		XL1-Blue E. coli Strain							
		glycerol			370)	-		
Decomposition emperature	:	pCMV-Tag4A Mammalian Expression Vector	Not available.						
		pCMV-Tag4B Mammalian Expression Vector	Not available.						
		pCMV-Tag4C Mammalian Expression Vector	Not available.						
		pCMV-Tag4 Expression Control Plasmid	Not available.						
		XL1-Blue E. coli Strain	Not available.						
Н	:	pCMV-Tag4A Mammalian Expression Vector	7.5						
		pCMV-Tag4B Mammalian Expression Vector	7.5						
		pCMV-Tag4C Mammalian Expression Vector	7.5						
		pCMV-Tag4 Expression Control Plasmid	7.5						
		XL1-Blue E. coli Strain	7.5						
/iscosity	:	pCMV-Tag4A Mammalian Expression Vector	Not available.						
		pCMV-Tag4B Mammalian Expression Vector	Not available.						
		pCMV-Tag4C Mammalian Expression Vector	Not available.						
		pCMV-Tag4 Expression Control Plasmid	Not available.						
		XL1-Blue E. coli Strain	Not available.	-					
Solubility(ies)	:	Media		Re	sult				
		pCMV-Tag4A Mammalian Expression Vector		0-1	ll. l .				
		water pCMV-Tag4B Mammalia Vector	an Expression	50	luble				
		water pCMV-Tag4C Mammalia	an Expression	Sol	luble	1			
		Vector water pCMV-Tag4 Expression	n Control	Sol	luble	ŧ			
		Plasmid							

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water

water

XL1-Blue E. coli Strain

Soluble

Soluble

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/water

pCMV-Tag4A Not applicable.

Mammalian Expression

Vector

pCMV-Tag4B Not applicable.

Mammalian Expression

Vector

pCMV-Tag4C Not applicable.

Mammalian Expression

Vector

pCMV-Tag4 Expression Not applicable.

Control Plasmid

XL1-Blue E. coli Strain Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
pCMV-Tag4A Mammalian Expression Vector						
water	17.5	2.3	-	92.258	12.3	-
pCMV-Tag4B Mammalian Expression Vector						
water	17.5	2.3	-	92.258	12.3	-
pCMV-Tag4C Mammalian Expression Vector						
water	17.5	2.3	-	92.258	12.3	-
pCMV-Tag4 Expression Control Plasmid						
water	17.5	2.3	-	92.258	12.3	-
XL1-Blue E. coli Strain						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-

Evaporation rate

: pCMV-Tag4A Not available.

Mammalian Expression

Vector

pCMV-Tag4B Not available.

Mammalian Expression

Vector

pCMV-Tag4C Not available.

Mammalian Expression

Vector

pCMV-Tag4 Expression Not available.

Control Plasmid

XL1-Blue E. coli Strain Not available.

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SECTION 9: Physical and chemical properties

Relative density pCMV-Tag4A Not available.

Mammalian Expression

Vector

pCMV-Tag4B Not available.

Mammalian Expression

Vector

Not available. pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

Not available.

XL1-Blue E. coli Strain

Not available. pCMV-Tag4A Not available.

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

Not available. XL1-Blue E. coli Strain

Explosive properties : pCMV-Tag4A Not available.

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain Not available. : pCMV-Tag4A Not available.

Oxidising properties Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

pCMV-Tag4 Expression Control Plasmid

XL1-Blue E. coli Strain

Not available.

Not applicable.

Not available.

Particle characteristics Median particle size

Vapour density

: pCMV-Tag4A Not applicable.

Mammalian Expression

Vector

pCMV-Tag4B Not applicable.

Mammalian Expression

Vector

pCMV-Tag4C Not applicable.

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain Not applicable.

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SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

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.

10.2 Chemical stability

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

The product is stable.

10.3 Possibility of hazardous reactions

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vecto

pCMV-Tag4 Expression

Control Plasmid

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.

10.4 Conditions to avoid

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

No specific data.

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

SECTION 10: Stability and reactivity

10.5 Incompatible materials

pCMV-Tag4A Mammalian Expression May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

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.

10.6 Hazardous decomposition products

pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression Control Plasmid

XL1-Blue E. coli Strain

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

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

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Under normal conditions of storage and use, hazardous

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
▼L1-Blue E. coli Strain Glycerol	12600	N/A	N/A	N/A	N/A

Irritation/Corrosion

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

Conclusion/Summary

: Not available.

Sensitiser

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

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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.

Ingestion

Skin contact

Information on likely routes of exposure

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

Not available.

Not available.

Not available.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

No known significant effects or critical hazards.

Potential acute health effects

Inhalation : pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

pCMV-Tag4 Expression

Control Plasmid

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.

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SECTION 11: Toxicological information

Eye contact : pCMV-Tag4A No known significant effects or critical hazards.

Mammalian Expression

Vector

pCMV-Tag4B No known significant effects or critical hazards.

Mammalian Expression

Vector

pCMV-Tag4C No known significant effects or critical hazards.

Mammalian Expression

pCMV-Tag4 Expression No known significant effects or critical hazards.

Control Plasmid

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

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : pCMV-Tag4A No specific data.

Mammalian Expression

Vector

pCMV-Tag4B No specific data.

Mammalian Expression

Vector

pCMV-Tag4C No specific data.

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

No specific data.

XL1-Blue E. coli Strain No specific data. : pCMV-Tag4A No specific data.

Mammalian Expression

Vector

pCMV-Tag4B No specific data.

Mammalian Expression

Vector

pCMV-Tag4C No specific data.

Mammalian Expression

Vector

pCMV-Tag4 Expression No specific data.

Control Plasmid

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

Skin contact pCMV-Tag4A

Ingestion

Mammalian Expression

Vector

pCMV-Tag4B No specific data.

Mammalian Expression

Vector

pCMV-Tag4C No specific data.

Mammalian Expression

Vector

pCMV-Tag4 Expression

No specific data.

Control Plasmid

XL1-Blue E. coli Strain No specific data.

: pCMV-Tag4A **Eye contact**

Mammalian Expression

No specific data.

Vector

pCMV-Tag4B No specific data.

Mammalian Expression

Vector

pCMV-Tag4C No specific data.

Mammalian Expression

Vector

pCMV-Tag4 Expression

No specific data. 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

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SECTION 11: Toxicological information

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

Not available.

Potential delayed

effects

Mutagenicity

Reproductive toxicity

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: Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General : pCMV-Tag4A No known significant effects or critical hazards.

Mammalian Expression

Vector

pCMV-Tag4B No known significant effects or critical hazards.

Mammalian Expression

Vector

pCMV-Tag4C

No known significant effects or critical hazards. Mammalian Expression

pCMV-Tag4 Expression

Control Plasmid

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

Carcinogenicity : pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

: pCMV-Tag4A

Mammalian Expression

Vector

pCMV-Tag4B

Mammalian Expression

Vector

pCMV-Tag4C

Mammalian Expression

Vector

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pCMV-Tag4 Expression

Control Plasmid

XL1-Blue E. coli Strain

No known significant effects or critical hazards.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
KL1-Blue E. coli Strain Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
KL1-Blue E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Mobility

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.

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SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

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 IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Label : pCMV-Tag4A Mammalian

Expression Vector

pCMV-Tag4B Mammalian

Expression Vector

pCMV-Tag4C Mammalian

Expression Vector

pCMV-Tag4 Expression

Control Plasmid

Not applicable.

Not applicable.

Not applicable.

Not applicable.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

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SECTION 15: Regulatory information

XL1-Blue E. coli Strain

Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments might still be

assessment required.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : All components are active or exempted.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications

Not applicable.

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revision

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Notice to reader

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