SAFETY DATA SHEET



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

Section 1. Identification

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

Part no. (chemical kit) : 211174

Part no. : pCMV-Tag4A Mammalian Expression Vector 211174-51

pCMV-Tag4B Mammalian Expression Vector 211174-52 pCMV-Tag4C Mammalian Expression Vector 211174-53 pCMV-Tag4 Expression Control Plasmid 211174-54 XL1-Blue E. coli Strain 200268-81

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

Identified uses : Analytical reagent.

> CMV-Tag4A Mammalian Expression Vector 20 μl (20 μg 1 μg/μl) pCMV-Tag4B Mammalian Expression Vector 20 µl (20 µg 1 µg/µl) pCMV-Tag4C Mammalian Expression Vector 20 µl (20 µg 1 µg/µl) pCMV-Tag4 Expression Control Plasmid $20 \mu l (20 \mu g \ 1 \mu g/\mu l)$

XL1-Blue E. coli Strain 500 ul

Supplier/Manufacturer : Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone : CHEMTREC®: 1-800-424-9300

number (with hours of operation)

Section 2. Hazard identification

Classification of the substance or mixture

XL1-Blue E. coli Strain

H320 EYE IRRITATION - Category 2B

GHS label elements

Signal word : pCMV-Tag4A Mammalian No signal word.

Expression Vector

pCMV-Tag4B Mammalian No signal word.

Expression Vector

pCMV-Tag4C Mammalian No signal word.

Expression Vector

pCMV-Tag4 Expression No signal word.

Control Plasmid

XL1-Blue E. coli Strain Warning

Hazard statements : pCMV-Tag4A Mammalian No known significant effects or critical hazards.

Expression Vector

pCMV-Tag4B Mammalian No known significant effects or critical hazards.

Expression Vector pCMV-Tag4C Mammalian

No known significant effects or critical hazards.

Expression Vector pCMV-Tag4 Expression

No known significant effects or critical hazards.

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

Precautionary statements

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Section 2. Hazard identification

Prevention	:	CMV-Tag4A Mammalian Expression Vector	Not applicable.
		pCMV-Tag4B Mammalian Expression Vector	Not applicable.
		pCMV-Tag4C Mammalian	Not applicable.
		Expression Vector pCMV-Tag4 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	Not applicable.
Response	:	pCMV-Tag4A Mammalian Expression Vector	Not applicable.
		pCMV-Tag4B Mammalian Expression Vector	Not applicable.
		pCMV-Tag4C Mammalian Expression Vector	Not applicable.
		pCMV-Tag4 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	:	pCMV-Tag4A Mammalian Expression Vector	Not applicable.
		pCMV-Tag4B Mammalian Expression Vector	Not applicable.
		pCMV-Tag4C Mammalian Expression Vector	Not applicable.
		pCMV-Tag4 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	Not applicable.
Disposal	:	pCMV-Tag4A Mammalian Expression Vector	Not applicable.
		pCMV-Tag4B Mammalian Expression Vector	Not applicable.
		pCMV-Tag4C Mammalian Expression Vector	Not applicable.
		pCMV-Tag4 Expression Control Plasmid	Not applicable.
		XL1-Blue E. coli Strain	Not applicable.
Supplemental label elements	:	pCMV-Tag4A Mammalian Expression Vector	None known.
		pCMV-Tag4B Mammalian Expression Vector	None known.
		pCMV-Tag4C Mammalian Expression Vector	None known.
		pCMV-Tag4 Expression Control Plasmid	None known.
		XL1-Blue E. coli Strain	None known.
Other hazards which do not result in classification	:	pCMV-Tag4A Mammalian Expression Vector	None known.
		pCMV-Tag4B Mammalian Expression Vector	None known.
		pCMV-Tag4C Mammalian Expression Vector	None known.
		pCMV-Tag4 Expression Control Plasmid	None known.
		XL1-Blue E. coli Strain	None known.

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Section 3. Composition/information on ingredients

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

Ingredient name	Synonyms	% (w/w)	CAS number
XL1-Blue E. coli Strain			
Glycerol	Glycerol	≥10 - ≤30	56-81-5

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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

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

Section 4. First-aid measures								
Description of necessary first aid measures								
Eye contact	: pCMV-Tag4A Mammalian Expression Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.						
	pCMV-Tag4B Mammalian Expression Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.						
	pCMV-Tag4C Mammalian Expression Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.						
	pCMV-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.						
	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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.						
Inhalation	: pCMV-Tag4A Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.						
	pCMV-Tag4B Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.						
	pCMV-Tag4C Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.						
	pCMV-Tag4 Expression Control Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical						

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XL1-Blue E. coli Strain

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a

Skin contact

 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

Ingestion

: 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

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

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. 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. 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. 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. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Most important symptoms/effects, acute and delayed Potential acute health effects

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

Eye contact

: 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.

Adverse symptoms may include the following:

irritation watering redness

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Inhalation	: pCMV-Tag4A Mammalian Expression Vector	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	No specific data.
Skin contact	 pCMV-Tag4A Mammalian Expression Vector 	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	No specific data.
Ingestion	 pCMV-Tag4A Mammalian Expression Vector 	No specific data.
	pCMV-Tag4B Mammalian Expression Vector	No specific data.
	pCMV-Tag4C Mammalian Expression Vector	No specific data.
	pCMV-Tag4 Expression Control Plasmid	No specific data.
	XL1-Blue E. coli Strain	No specific data.
Indication of immediate me	edical attention and special treat	ment needed if necessary

Indication of immediate i	medical attention and special treat	ment needed, if necessary
Notes to physician	 pCMV-Tag4A Mammalian Expression Vector 	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-Tag4B Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-Tag4C Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-Tag4 Expression Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XL1-Blue E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pCMV-Tag4A Mammalian Expression Vector	No specific treatment.
	pCMV-Tag4B Mammalian Expression Vector	No specific treatment.
	pCMV-Tag4C Mammalian Expression Vector	No specific treatment.

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No specific treatment.

No specific treatment.

pCMV-Tag4 Expression

Control Plasmid XL1-Blue E. coli Strain

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing 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 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.

Unsuitable extinguishing media

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

C Mammalian None known. Vector

None known.

XL1-Blue E. coli Strain

None known.

Specific hazards arising from the chemical

: 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 In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal 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

No specific data.

No specific data.

No specific data.

No specific data.

Decomposition products may include the following materials: carbon dioxide

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Section 5. Fire-fighting measures

carbon monoxide halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: pCMV-Tag4A Mammalian Expression Vector Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

pCMV-Tag4B Mammalian Expression Vector

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

pCMV-Tag4C Mammalian Expression Vector

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

pCMV-Tag4 Expression Control Plasmid

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

XL1-Blue E. coli Strain

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: pCMV-Tag4A Mammalian Expression Vector Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

pCMV-Tag4B Mammalian Expression Vector

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

pressure mode.

pCMV-Tag4C Mammalian Expression Vector

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

pressure mode.

pCMV-Tag4 Expression Control Plasmid

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

pressure mode.

XL1-Blue E. coli Strain

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

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: pCMV-Tag4A Mammalian Expression Vector No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled 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 spilled material. Put on appropriate personal protective equipment.

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Section 6. Accidental release measures

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 spilled 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 spilled 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : 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

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

Environmental precautions

: pCMV-Tag4A Mammalian **Expression Vector**

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

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

pCMV-Tag4B Mammalian **Expression Vector**

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

pCMV-Tag4C Mammalian **Expression Vector**

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

pCMV-Tag4 Expression Control Plasmid

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

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Section 6. Accidental release measures

XL1-Blue E. coli Strain

caused environmental pollution (sewers, waterways, soil or air).

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

Methods and materials 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 of via a licensed waste disposal contractor.

pCMV-Tag4C Mammalian Expression Vector

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. 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.

XL1-Blue E. coli Strain

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

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: pCMV-Tag4A Mammalian Expression Vector pCMV-Tag4B Mammalian Expression Vector pCMV-Tag4C Mammalian Expression Vector pCMV-Tag4 Expression Control Plasmid XL1-Blue E. coli Strain Put on appropriate personal protective equipment (see Section 8).

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

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

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

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Section 7. Handling and storage

Advice on general occupational hygiene : 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

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

Expression Vector

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

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

pCMV-Tag4C Mammalian

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Section 7. Handling and storage

Expression Vector

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

pCMV-Tag4 Expression Control Plasmid

XL1-Blue E. coli Strain

incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from

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

incompatible materials before handling or use.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
XL1-Blue E. coli Strain	
Glycerol	CA Alberta Provincial (Canada, 6/2018).
•	8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist
	CA Quebec Provincial (Canada, 6/2022).
	TWAEV: 10 mg/m³ 8 hours. Form: mist
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 20 mg/m³ 15 minutes. Form: mist
	TWA: 10 mg/m³ 8 hours. Form: mist
	CA British Columbia Provincial (Canada,
	6/2022).
	TWA: 3 mg/m³ 8 hours. Form: respirable
	mist
	TWA: 10 mg/m³ 8 hours. Form: total mist

Biological exposure indices

No exposure indices known.

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Section 8. Exposure controls/personal protection

Appropriate engineering controls

Environmental exposure controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state : pCMV-Tag4A Mammalian Liquid. Expression Vector

pCMV-Tag4B Mammalian Liquid.

Expression Vector pCMV-Tag4C Mammalian Liquid.

Expression Vector pCMV-Tag4 Expression Liquid.

Control Plasmid
XL1-Blue E. coli Strain
Liquid.

Color : pCMV-Tag4A Mammalian Not available.
Expression Vector

pCMV-Tag4B Mammalian Not available. Expression Vector pCMV-Tag4C Mammalian Not available.

Expression Vector pCMV-Tag4 Expression Not available.

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		Control Plasmid XL1-Blue E. coli Stra	in	Not avai	lable.			
Odor	:	pCMV-Tag4A Mamm Expression Vector	nalian	Not avai	lable.			
		pCMV-Tag4B Mamm Expression Vector	nalian	Not avai	lable.			
		pCMV-Tag4C Mamm Expression Vector	nalian	Not avai	lable.			
		pCMV-Tag4 Express Control Plasmid	ion	Not avai	lable.			
		XL1-Blue E. coli Stra	in	Not avai	lable.			
Odor threshold	:	pCMV-Tag4A Mamm Expression Vector	nalian	Not avai	lable.			
		pCMV-Tag4B Mamm Expression Vector	nalian	Not avai	lable.			
		pCMV-Tag4C Mamm Expression Vector	nalian	Not avai	lable.			
		pCMV-Tag4 Express Control Plasmid	ion	Not avai	lable.			
		XL1-Blue E. coli Stra	in	Not avai	lable.			
pH	:	pCMV-Tag4A Mamm Expression Vector	nalian	7.5				
		pCMV-Tag4B Mamm Expression Vector	nalian	7.5				
		pCMV-Tag4C Mamm Expression Vector	nalian	7.5				
		pCMV-Tag4 Express Control Plasmid		7.5				
		XL1-Blue E. coli Stra		7.5				
Melting point/freezing point	:	pCMV-Tag4A Mamm Expression Vector	nalian	0°C (32°	'F)			
		pCMV-Tag4B Mamm Expression Vector	nalian	0°C (32°	'F)			
		pCMV-Tag4C Mamm Expression Vector	nalian	0°C (32°	F)			
		pCMV-Tag4 Express Control Plasmid	ion	0°C (32°	F)			
		XL1-Blue E. coli Stra	in	Not avai				
Boiling point, initial boiling point, and boiling range	:	pCMV-Tag4A Mamm Expression Vector		100°C (2	·			
		pCMV-Tag4B Mamm Expression Vector		100°C (2	·			
		pCMV-Tag4C Mamm Expression Vector		100°C (2	·			
		pCMV-Tag4 Express Control Plasmid		100°C (2	,			
Elach point		XL1-Blue E. coli Stra	in I	Not avai		1		
Flash point	:			Closed	cup	1	Open	cup
		Ingredient name	°C	°F	Method	°C	°F	Method
		KL1-Blue E. coli Strain						
		1	1		Î		Ī	1

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Glycerol

350.6

Evaporation rate : pCMV-Tag4A Mammalian Not available. Expression Vector pCMV-Tag4B Mammalian Not available. **Expression Vector** pCMV-Tag4C Mammalian Not available. **Expression Vector** pCMV-Tag4 Expression Not available. Control Plasmid XL1-Blue E. coli Strain Not available. **Flammability** : pCMV-Tag4A Mammalian Not applicable. **Expression Vector** pCMV-Tag4B Mammalian Not applicable. **Expression Vector** pCMV-Tag4C Mammalian Not applicable. **Expression Vector** pCMV-Tag4 Expression Not applicable. Control Plasmid XL1-Blue E. coli Strain Not applicable. Lower and upper explosion : pCMV-Tag4A Mammalian Not available. limit/flammability limit **Expression Vector** pCMV-Tag4B Mammalian Not available. **Expression Vector** pCMV-Tag4C Mammalian Not available. **Expression Vector** pCMV-Tag4 Expression Not available. Control Plasmid XL1-Blue E. coli Strain Not available.

Vapor pressure

	Vapo	Vapor Pressure at 20°C		Vapor 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	-	
						ĺ	

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	XL1-Blue E. coli Strain						
	water	17.5	2.3	-	92.258	12.3	-
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Relative vapor density	: pCMV-Tag4A Mam Expression Vector	malian	Not avail	able.	•	•	
	•	pCMV-Tag4B Mammalian		able.			
		pCMV-Tag4C Mammalian		able.			
		•		able.			

Relative density

Control Plasmid
XL1-Blue E. coli Strain
Not available.

PCMV-Tag4A Mammalian
Expression Vector
PCMV-Tag4B Mammalian
Expression Vector
PCMV-Tag4C Mammalian
Expression Vector
PCMV-Tag4 Expression
Control Plasmid
Not available.
Not available.

XL1-Blue E. coli Strain

Solubility(ies)

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

Not available.

Partition coefficient: n-octanol/water

water Solut

pCMV-Tag4A Mammalian Not applicable.

Expression Vector
pCMV-Tag4B Mammalian Not applicable.

Expression Vector
pCMV-Tag4C Mammalian Not applicable.

Expression Vector
pCMV-Tag4 Expression Not applicable.

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

Auto-ignition temperature

Ingredient name	°C	°F	Method
XL1-Blue E. coli Strain			
Glycerol	370	698	-

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Decomposition temperature

: 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

XL1-Blue E. coli StrainpCMV-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.

Particle characteristics
Median particle size

: 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.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Section 10. Stability and reactivity

Reactivity

Viscosity

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

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.

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.

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Section 10. Stability and reactivity

Possibility of hazardous reactions

: 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 reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use.

hazardous reactions will not occur.

Conditions to avoid

: pCMV-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.

Incompatible materials

: 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

May react or be incompatible with oxidizing materials.

Hazardous decomposition products

pCMV-Tag4A Mammalian **Expression Vector**

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

pCMV-Tag4B Mammalian **Expression Vector**

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

pCMV-Tag4C Mammalian **Expression Vector**

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

pCMV-Tag4 Expression

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

Control Plasmid

produced.

XL1-Blue E. coli Strain

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

produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

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

Irritation/Corrosion

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

Sensitization

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: 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.

Potential acute health effects

Eye contact

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

No known significant effects or critical hazards.

Causes eye irritation.

No known significant effects or critical hazards.

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Ingestion

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

Skin contact : pCMV-Tag4A Mammalian Expression Vector No known significant effects or critical hazards.

pCMV-Tag4B Mammalian No known significant effects or critical hazards. Expression Vector

pCMV-Tag4C Mammalian No known significant effects or critical hazards. Expression Vector

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

XL1-Blue E. coli Strain
 pCMV-Tag4A Mammalian
 No known significant effects or critical hazards.

Expression Vector pCMV-Taq4B Mammalian No known significant effects or critical hazards.

Expression Vector

pCMV-Tag4C Mammalian No known significant effects or critical hazards. Expression Vector

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

Eye contact : pCMV-Tag4A Mammalian No specific data.

Expression Vector

pCMV-Tag4B Mammalian No specific data.

Expression Vector pCMV-Tag4C Mammalian No specific data.

Expression Vector

pCMV-Tag4 Expression No specific data.
Control Plasmid

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

irritation watering redness

Inhalation : pCMV-Tag4A Mammalian No specific data.

Expression Vector

pCMV-Tag4B Mammalian No specific data.

Expression Vector pCMV-Tag4C Mammalian No specific data.

Expression Vector pCMV-Tag4 Expression No specific data.

Control Plasmid

XL1-Blue E. coli Strain No specific data.

Skin contact: pCMV-Tag4A Mammalian No specific data.

Expression Vector

pCMV-Tag4B Mammalian No specific data.

Expression Vector pCMV-Tag4C Mammalian No specific data.

Expression Vector pCMV-Tag4 Expression No specific data.

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

Ingestion : pCMV-Tag4A Mammalian No specific data.

Expression Vector

pCMV-Tag4B Mammalian No specific data.

Expression Vector
pCMV-Tag4C Mammalian No specific data.

Expression Vector pCMV-Tag4 Expression No specific data.

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Control Plasmid

XL1-Blue E. coli Strain No specific data.

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

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Carcinogenicity

Mutagenicity

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : 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 pCMV-Tag4 Expression Control Plasmid

Control Plasmid XL1-Blue E. coli Strain

Reproductive toxicity: 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.

Numerical measures of toxicity
Acute toxicity estimates

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

Section 12. Ecological information

Toxicity

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

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1 2	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

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

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

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

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

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

Canada : Not determined.

United States : All components are active or exempted.

Section 16. Other information

History

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Procedure used to derive the classification

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pCMV-Tag4 Epitope Tagging Mammalian Expression Vectors, Part Number 211174	
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Section 16. Other information

Classification	Justification
KL1-Blue E. coli Strain	
EYE IRRITATION - Category 2B	Calculation method

[✓] Indicates information that has changed from previously issued version.

Notice to reader

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