# SAFETY DATA SHEET



pCAL-n-EK Vector, Part Number 214310

### **Section 1. Identification**

Product identifier : pCAL-n-EK Vector, Part Number 214310

Part no. (chemical kit) : 214310

 Part no.
 : pCal-n-EK
 214310-51

 pTC 12 Control Vector
 214407-56

XL1-Blue E. coli Strain 200268-81

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

Material uses : Analytical reagent.

pCal-n-EK 0.02 ml (20  $\mu$ g 1  $\mu$ g/ $\mu$ l) pTC 12 Control Vector 0.01 ml (10  $\mu$ g 1  $\mu$ g/ $\mu$ l)

XL1-Blue E. coli Strain 0.5 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170, Australia

1800 802 402

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(61)-290372994

### Section 2. Hazard(s) identification

#### Classification of the substance or mixture

Not classified.

L1-Blue E. coli Strain Percentage of the mixture consisting of ingredient(s)

of unknown inhalation toxicity: 10 - 30%

**GHS label elements** 

Signal word : pcal-n-EK No signal word.

pTC 12 Control Vector No signal word. XL1-Blue E. coli Strain No signal word.

**Hazard statements** : pCal-n-EK No known significant effects or critical hazards.

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : pCal-n-EK Not applicable. pTC 12 Control Vector Not applicable.

XL1-Blue E. coli Strain

Not applicable.

Cal-n-EK

pTC 12 Control Vector

Not applicable.

Not applicable.

XL1-Blue E. coli Strain Not applicable.

Storage : pCal-n-EK Not applicable.

pTC 12 Control Vector
XL1-Blue E. coli Strain

pCal-n-EK
Not applicable.
Not applicable.
Not applicable.

Disposal : pCal-n-EK Not applicable. pTC 12 Control Vector Not applicable.

XL1-Blue E. coli Strain Not applicable.

Supplemental label elements

Response

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## Section 2. Hazard(s) identification

Additional warning phrases

pCal-n-EK
pTC 12 Control Vector
XL1-Blue E. coli Strain

Not applicable.
Not applicable.
Not applicable.

Other hazards which do not result in classification

: pCal-n-EK None known. pTC 12 Control Vector None known. XL1-Blue E. coli Strain None known.

## Section 3. Composition and ingredient information

Substance/mixture

: pCal-n-EK Mixture pTC 12 Control Vector Mixture XL1-Blue E. coli Strain Mixture

#### **CAS** number/other identifiers

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

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

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

### Section 4. First aid measures

<b>Description of</b>	necessary	first aid	measures
Description of	Heecosaa	, ili ət alu	measures

**Eye contact**: pCal-n-EK 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.

pTC 12 Control Vector Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

XL1-Blue E. coli Strain Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Inhalation : pCal-n-EK Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

pTC 12 Control Vector Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

XL1-Blue E. coli Strain Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Skin contact : pCal-n-EK Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

pTC 12 Control Vector Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

XL1-Blue E. coli Strain Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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### Section 4. First aid measures

Ingestion : pCal-n-EK Wash out mouth with water. Remove victim to fresh

air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless

directed to do so by medical personnel. Get medical

attention if symptoms occur.

pTC 12 Control Vector Wash out mouth with water. Remove victim to fresh

air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

XL1-Blue E. coli Strain Wash out mouth with water. Remove victim to fresh

air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

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

### Potential acute health effects

**Eye contact**: pCal-n-EK

No known significant effects or critical hazards.

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

Inhalation : pCal-n-EK

pCal-n-EK
pTC 12 Control Vector
XL1-Blue E. coli Strain
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Skin contact : pCal-n-EK

pCal-n-EK
pTC 12 Control Vector
XL1-Blue E. coli Strain
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

**Ingestion** : pCal-n-EK

pCal-n-EK
pTC 12 Control Vector
XL1-Blue E. coli Strain
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : pCal-n-EK No specific data.

pTC 12 Control Vector
XL1-Blue E. coli Strain
PCal-n-EK

No specific data.
No specific data.
No specific data.

Inhalation : pCal-n-EK

pTC 12 Control Vector No specific data.

XL1-Blue E. coli Strain No specific data.

pCal-n-EK No specific data.

Skin contact : pCal-n-EK

pTC 12 Control Vector No specific data.

XL1-Blue E. coli Strain No specific data.

: pCal-n-EK No specific data.

**Ingestion** : pCal-n-EK

pTC 12 Control Vector No specific data. XL1-Blue E. coli Strain No specific data.

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

Notes to physician : pCal-n-EK Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

pTC 12 Control Vector Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

XL1-Blue E. coli Strain Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

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### Section 4. First aid measures

**Specific treatments** : pCal-n-EK

No specific treatment. pTC 12 Control Vector No specific treatment. XL1-Blue E. coli Strain No specific treatment.

**Protection of first-aiders** 

: pCal-n-EK

No action shall be taken involving any personal risk

or without suitable training.

pTC 12 Control Vector No action shall be taken involving any personal risk

ingested or inhaled.

or without suitable training.

XL1-Blue E. coli Strain No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

**Extinguishing media** 

Suitable extinguishing media

: pCal-n-EK Use an extinguishing agent suitable for the

surrounding fire.

pTC 12 Control Vector Use an extinguishing agent suitable for the

surrounding fire.

XL1-Blue E. coli Strain Use an extinguishing agent suitable for the

surrounding fire.

**Unsuitable extinguishing** 

media

: pCal-n-EK

None known. pTC 12 Control Vector None known. XL1-Blue E. coli Strain None known.

Specific hazards arising from the chemical

: pCal-n-EK

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

and the container may burst.

pTC 12 Control Vector In a fire or if heated, a pressure increase will occur

and the container may burst.

XL1-Blue E. coli Strain In a fire or if heated, a pressure increase will occur

and the container may burst.

**Hazardous thermal** decomposition products : pCal-n-EK

pTC 12 Control Vector XL1-Blue E. coli Strain No specific data. No specific data.

Decomposition products may include the following

materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

**Special protective actions** 

for fire-fighters

: pCal-n-EK

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.

pTC 12 Control 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.

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 : pCal-n-EK

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive

pressure mode.

pTC 12 Control Vector

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

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## Section 5. Firefighting measures

XL1-Blue E. coli Strain

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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: pCal-n-EK

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.

pTC 12 Control Vector

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

protective equipment.

XL1-Blue E. coli Strain

pTC 12 Control Vector

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.

For emergency responders: pCal-n-EK

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

suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

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,

pTC 12 Control Vector

: pCal-n-EK

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

soil or air).

XL1-Blue E. coli Strain

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

soil or air).

Methods and material for containment and cleaning up

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### Section 6. Accidental release measures

Methods for cleaning up : pCal-n-EK

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.

pTC 12 Control 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.

(see Section 8).

(see Section 8).

(see Section 8).

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.

Put on appropriate personal protective equipment

Put on appropriate personal protective equipment

Put on appropriate personal protective equipment

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.

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.

Eating, drinking and smoking should be prohibited in

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

## Section 7. Handling and storage

Precautions for safe handling

**Protective measures** 

: pCal-n-EK

pTC 12 Control Vector

XL1-Blue E. coli Strain

Advice on general occupational hygiene

including any

incompatibilities

: pCal-n-EK

pTC 12 Control Vector

XL1-Blue E. coli Strain

Conditions for safe storage, : pCal-n-EK

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

containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled

Store in accordance with local regulations. Store in

pTC 12 Control Vector

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## Section 7. Handling and storage

XL1-Blue E. coli Strain

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. 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.

## Section 8. Exposure controls and personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
XL1-Blue E. coli Strain Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.

# 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.

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## Section 8. Exposure controls and personal protection

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

<u>A</u>	p	p	e	<u>a</u>	r	16	1	C	E
	_	_							

**Physical state** : pCal-n-EK Liquid. pTC 12 Control Vector Liquid. XL1-Blue E. coli Strain Liquid.

Colour : pCal-n-EK Not available.

> pTC 12 Control Vector Not available. Not available. XL1-Blue E. coli Strain

: pCal-n-EK Not available. Odour

pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

Not available. **Odour threshold** : pCal-n-EK

Not available. pTC 12 Control Vector XL1-Blue E. coli Strain Not available.

pН 7.5 : pCal-n-EK

pTC 12 Control Vector 7.5 XL1-Blue E. coli Strain 7.5

**Melting point** 0°C (32°F) : pCal-n-EK

pTC 12 Control Vector 0°C (32°F) XL1-Blue E. coli Strain Not available.

: pCal-n-EK 100°C (212°F) **Boiling point** 

pTC 12 Control Vector 100°C (212°F) XL1-Blue E. coli Strain Not available.

: pCal-n-EK Flash point Not available.

> pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

Not available. **Evaporation rate** : pCal-n-EK

pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

Not applicable. Flammability (solid, gas) : pCal-n-EK

Not applicable. pTC 12 Control Vector Not applicable. XL1-Blue E. coli Strain

Lower and upper explosive

(flammable) limits

: pCal-n-EK

Not available. pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

Not available. Vapour pressure : pCal-n-EK

pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

Not available. Vapour density : pCal-n-EK

pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

Relative density : pCal-n-EK Not available.

pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

Solubility Easily soluble in the following materials: cold water : pCal-n-EK

and hot water.

Easily soluble in the following materials: cold water pTC 12 Control Vector

and hot water.

XL1-Blue E. coli Strain Soluble in the following materials: cold water and hot

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## Section 9. Physical and chemical properties

Partition coefficient: noctanol/water

: pCal-n-EK
pTC 12 Control Vector
Not available.
Not available.

XL1-Blue E. coli Strain Not available.

Auto-ignition temperature : pCal-n-EK Not available.

pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

**Decomposition temperature**: pCal-n-EK Not available.

pTC 12 Control Vector Not available. XL1-Blue E. coli Strain Not available.

Viscosity : pCal-n-EK Not available. pTC 12 Control Vector Not available.

XL1-Blue E. coli Strain Not available.

# Section 10. Stability and reactivity

**Reactivity** : pCal-n-EK No specific test data related to reactivity available for

this product or its ingredients.

pTC 12 Control Vector No specific test data related to reactivity available for

this product or its ingredients.

XL1-Blue E. coli Strain No specific test data related to reactivity available for

this product or its ingredients.

**Chemical stability** : pCal-n-EK The product is stable.

pTC 12 Control Vector The product is stable. XL1-Blue E. coli Strain The product is stable.

Possibility of hazardous

reactions

: pCal-n-EK

Under normal conditions of storage and use,

hazardous reactions will not occur.

pTC 12 Control Vector Under normal conditions of storage and use,

hazardous reactions will not occur.

XL1-Blue E. coli Strain Under normal conditions of storage and use,

hazardous reactions will not occur.

Conditions to avoid : pCal-n-EK No specific data.

pTC 12 Control Vector No specific data. XL1-Blue E. coli Strain No specific data.

**Incompatible materials**: pCal-n-EK

pTC 12 Control Vector May react or be incompatible with oxidising materials. XL1-Blue E. coli Strain May react or be incompatible with oxidising materials.

Hazardous decomposition

products

: pCal-n-EK

Under normal conditions of storage and use,

hazardous decomposition products should not be

May react or be incompatible with oxidising materials.

produced.

pTC 12 Control Vector Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

XL1-Blue E. coli Strain Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

## **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

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

#### **Irritation/Corrosion**

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## **Section 11. Toxicological information**

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 milligrams 24 hours 500 milligrams	-

#### **Sensitisation**

Not available.

**Mutagenicity** 

**Conclusion/Summary** : Not available.

Carcinogenicity

**Conclusion/Summary** : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available. Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on likely routes

of exposure

Skin contact

: pCal-n-EK

pTC 12 Control Vector

Not available. Not available.

XL1-Blue E. coli Strain Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

**Eye contact** : pCal-n-EK

> pTC 12 Control Vector XL1-Blue E. coli Strain

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Inhalation : pCal-n-EK

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain

: pCal-n-EK

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

Ingestion : pCal-n-EK

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

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

Eye contact : pCal-n-EK No specific data.

> pTC 12 Control Vector No specific data. XL1-Blue E. coli Strain No specific data. : pCal-n-EK No specific data.

Inhalation

pTC 12 Control Vector No specific data. XL1-Blue E. coli Strain No specific data.

**Skin contact** : pCal-n-EK No specific data.

pTC 12 Control Vector No specific data. XL1-Blue E. coli Strain No specific data.

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## **Section 11. Toxicological information**

Ingestion : pCal-n-EK No specific data.

pTC 12 Control Vector No specific data. XL1-Blue E. coli Strain No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General: pCal-n-EK No known significant effects or critical hazards.

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

**Carcinogenicity**: pCal-n-EK

No known significant effects or critical hazards.

pTC 12 Control Vector

No known significant effects or critical hazards.

XL1-Blue E. coli Strain

No known significant effects or critical hazards.

**Mutagenicity**: pCal-n-EK
No known significant effects or critical hazards.

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

**Teratogenicity**: pCal-n-EK
No known significant effects or critical hazards.

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

**Developmental effects**: pCal-n-EK

No known significant effects or critical hazards.

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

Fertility effects : pCal-n-EK No known significant effects or critical hazards.

pTC 12 Control Vector No known significant effects or critical hazards. XL1-Blue E. coli Strain No known significant effects or critical hazards.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Not available.

# **Section 12. Ecological information**

#### **Toxicity**

		<u>.</u>	
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
, ,	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

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# Section 12. Ecological information

#### **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 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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

ADG / IMDG / IATA

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

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

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

the IBC Code

## Section 15. Regulatory information

**Standard Uniform Schedule of Medicine and Poisons** 

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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

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# Section 15. Regulatory information

Not listed.

#### **Inventory list**

**Australia** : All components are listed or exempted.

: Not determined. Canada

China : All components are listed or exempted. : All components are listed or exempted. **Europe** 

**J**apan inventory (ENCS): All components are listed or exempted. **Japan** 

Japan inventory (ISHL): All components are listed or exempted.

Malaysia : Not determined.

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

**Philippines** : Not determined.

Republic of Korea : All components are listed or exempted. **Taiwan** : All components are listed or exempted.

**Thailand** Not determined. **Turkey** : Not determined.

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

Viet Nam : Not determined.

# Section 16. Any other relevant information

### **History**

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Key to abbreviations : ADG = Australian Dangerous Goods

> ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC = National Occupational Health and Safety Commission SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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