

# SAFETY DATA SHEET

Lambda Select-cll Mutation Detection System for Big Blue Rodents, Part Number 720120

## Section 1. Identification

**Product identifier** : Lambda Select-cll Mutation Detection System for Big Blue Rodents, Part Number 720120

**Part no. (chemical kit)** : 720120

**Part no.** :

Transpack Blue Tube	200220-41
Transpack Red Tube	200220-42
Big Blue Control Genomic DNA	200220-43
SCS-8 E. coli Strain	200288-81
G1250 E. coli Host Strain	720120-81
Control Phage Solution	720120-82

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

**Material uses** : Analytical reagent.

Transpack packaging extract-Blue	1.4 ml
Transpack packaging extract-Red	1 ml
Big Blue Control Genomic DNA	0.02 ml
SCS-8 E. coli Strain	1 ml
G1250 E. coli Host Strain	1 ml
Control Phage Solution	0.125 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

G1250 E. coli Host Strain

H373  
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (kidneys)  
(inhalation) - Category 2

Transpack Blue Tube	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
Transpack Red Tube	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
SCS-8 E. coli Strain	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
G1250 E. coli Host Strain	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%

### GHS label elements

**Hazard pictograms** : G1250 E. coli Host Strain



## Section 2. Hazard(s) identification

<b>Signal word</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	No signal word. No signal word. No signal word. No signal word. WARNING No signal word.
<b>Hazard statements</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain  Control Phage Solution	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. H373 - May cause damage to organs through prolonged or repeated exposure if inhaled. (kidneys) No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	Not applicable. Not applicable. Not applicable. Not applicable. P260 - Do not breathe vapour. Not applicable.
<b>Response</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	Not applicable. Not applicable. Not applicable. Not applicable. P314 - Get medical attention if you feel unwell. Not applicable.
<b>Storage</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain  Control Phage Solution	Not applicable. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable.
<b>Supplemental label elements</b>		
<b>Additional warning phrases</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

## Section 2. Hazard(s) identification

<b>Other hazards which do not result in classification</b>	<b>:</b> Transpack Blue Tube	None known.
	Transpack Red Tube	None known.
	Big Blue Control Genomic DNA	None known.
	SCS-8 E. coli Strain	None known.
	G1250 E. coli Host Strain	None known.
	Control Phage Solution	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	<b>:</b> Transpack Blue Tube	Mixture
	Transpack Red Tube	Mixture
	Big Blue Control Genomic DNA	Mixture
	SCS-8 E. coli Strain	Mixture
	G1250 E. coli Host Strain	Mixture
	Control Phage Solution	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>Transpack Blue Tube</b> Sucrose	≤10	57-50-1
<b>Transpack Red Tube</b> Sucrose	≤10	57-50-1
<b>SCS-8 E. coli Strain</b> Glycerol	≥10 - ≤30	56-81-5
<b>G1250 E. coli Host Strain</b> Glycerol	≥10 - ≤30	56-81-5

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

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


## Section 4. First aid measures

### Description of necessary first aid measures


<b>Eye contact</b>	<b>:</b> Transpack Blue Tube	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.
	Transpack Red Tube	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.
	Big Blue Control Genomic DNA	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.
	SCS-8 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.
	G1250 E. coli Host 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. Get medical attention following exposure or if feeling unwell.
	Control Phage Solution	Immediately flush eyes with plenty of water,

## Section 4. First aid measures


### Inhalation

:  Transpack Blue Tube	occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Transpack Red Tube	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Big Blue Control Genomic DNA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SCS-8 E. coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
G1250 E. coli Host Strain	Remove victim to fresh air and keep at rest in a 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 following exposure or if feeling unwell. 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.
Control Phage Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

### Skin contact

:  Transpack Blue Tube	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Transpack Red Tube	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Big Blue Control Genomic DNA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SCS-8 E. coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
G1250 E. coli Host Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Control Phage Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

### Ingestion

:  Transpack Blue Tube	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.
Transpack Red Tube	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.

## Section 4. First aid measures

Big Blue Control Genomic DNA	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.
SCS-8 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.
G1250 E. coli Host Strain	Wash out mouth with water. Remove dentures if any. 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. 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 following exposure or if feeling unwell. 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.
Control Phage Solution	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

<b>Eye contact</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

## Section 4. First aid measures

<b>Ingestion</b>	:	Transpack Blue Tube	No known significant effects or critical hazards.
		Transpack Red Tube	No known significant effects or critical hazards.
		Big Blue Control Genomic DNA	No known significant effects or critical hazards.
		SCS-8 E. coli Strain	No known significant effects or critical hazards.
		G1250 E. coli Host Strain	No known significant effects or critical hazards.
		Control Phage Solution	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	:	Transpack Blue Tube	No specific data.
		Transpack Red Tube	No specific data.
		Big Blue Control Genomic DNA	No specific data.
		SCS-8 E. coli Strain	No specific data.
		G1250 E. coli Host Strain	No specific data.
		Control Phage Solution	No specific data.
<b>Inhalation</b>	:	Transpack Blue Tube	No specific data.
		Transpack Red Tube	No specific data.
		Big Blue Control Genomic DNA	No specific data.
		SCS-8 E. coli Strain	No specific data.
		G1250 E. coli Host Strain	No specific data.
		Control Phage Solution	No specific data.
<b>Skin contact</b>	:	Transpack Blue Tube	No specific data.
		Transpack Red Tube	No specific data.
		Big Blue Control Genomic DNA	No specific data.
		SCS-8 E. coli Strain	No specific data.
		G1250 E. coli Host Strain	No specific data.
		Control Phage Solution	No specific data.
<b>Ingestion</b>	:	Transpack Blue Tube	No specific data.
		Transpack Red Tube	No specific data.
		Big Blue Control Genomic DNA	No specific data.
		SCS-8 E. coli Strain	No specific data.
		G1250 E. coli Host Strain	No specific data.
		Control Phage Solution	No specific data.

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

<b>Notes to physician</b>	:	Transpack Blue Tube	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Transpack Red Tube	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Big Blue Control Genomic DNA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SCS-8 E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		G1250 E. coli Host Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Control Phage Solution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 4. First aid measures

<b>Specific treatments</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: Transpack Blue Tube  Transpack Red Tube  Big Blue Control Genomic DNA SCS-8 E. coli Strain  G1250 E. coli Host Strain  Control Phage Solution	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. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media


<b>Suitable extinguishing media</b>	: Transpack Blue Tube  Transpack Red Tube  Big Blue Control Genomic DNA SCS-8 E. coli Strain  G1250 E. coli Host Strain  Control Phage Solution	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. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	None known. None known. None known. None known. None known. None known.

### Specific hazards arising from the chemical


: Transpack Blue Tube	In a fire or if heated, a pressure increase will occur and the container may burst.
Transpack Red Tube	In a fire or if heated, a pressure increase will occur and the container may burst.
Big Blue Control Genomic DNA	In a fire or if heated, a pressure increase will occur and the container may burst.
SCS-8 E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
G1250 E. coli Host Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
Control Phage Solution	In a fire or if heated, a pressure increase will occur and the container may burst.

## Section 5. Firefighting measures


### Hazardous thermal decomposition products

:  ranspack Blue Tube	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Transpack Red Tube	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data.
G1250 E. coli Host Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
Control Phage Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

### Special protective actions for fire-fighters

:  ranspack Blue Tube	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.
Transpack Red Tube	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.
Big Blue Control Genomic DNA	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.
SCS-8 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.
G1250 E. coli Host 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.
Control Phage Solution	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

:  ranspack Blue Tube	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Transpack Red Tube	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Big Blue Control Genomic DNA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SCS-8 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 5. Firefighting measures

G1250 E. coli Host 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.
Control Phage Solution	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

<b>For non-emergency personnel</b>	: Transpack Blue Tube	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.
	Transpack Red Tube	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.
	Big Blue Control Genomic DNA	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.
	SCS-8 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.
	G1250 E. coli Host 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Control Phage Solution	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.
<b>For emergency responders</b>	: Transpack Blue Tube	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".
	Transpack Red Tube	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".
	Big Blue Control Genomic DNA	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".

## Section 6. Accidental release measures

SCS-8 E. coli Strain	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
G1250 E. coli Host Strain	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Control Phage Solution	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

<b>Environmental precautions</b> : Transpack Blue Tube	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).
Transpack Red Tube	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).
Big Blue Control Genomic DNA	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).
SCS-8 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).
G1250 E. coli Host 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).
Control Phage Solution	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

<b>Methods for cleaning up</b> : Transpack Blue Tube	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.
Transpack Red Tube	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.
Big Blue Control Genomic DNA	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 6. Accidental release measures

SCS-8 E. coli Strain	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.
G1250 E. coli Host 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.
Control Phage Solution	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

Transpack Blue Tube	Put on appropriate personal protective equipment (see Section 8).
Transpack Red Tube	Put on appropriate personal protective equipment (see Section 8).
Big Blue Control Genomic DNA	Put on appropriate personal protective equipment (see Section 8).
SCS-8 E. coli Strain	Put on appropriate personal protective equipment (see Section 8).
G1250 E. coli Host Strain	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.
Control Phage Solution	Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

Transpack Blue Tube	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.
Transpack Red Tube	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.
Big Blue Control Genomic DNA	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.
SCS-8 E. coli Strain	Potentially biohazardous material. Eating, drinking

## Section 7. Handling and storage

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.

G1250 E. coli Host 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.

Control Phage Solution

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.

**Conditions for safe storage, including any incompatibilities** : Transpack Blue Tube

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.

Transpack Red Tube

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.

Big Blue Control Genomic DNA

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.

SCS-8 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

## Section 7. Handling and storage

G1250 E. coli Host Strain

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. 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.

Control Phage Solution

## Section 8. Exposure controls and personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

Ingredient name	Exposure limits
<b>Transpack Blue Tube</b> Sucrose	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Transpack Red Tube</b> Sucrose	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>SCS-8 E. coli Strain</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>G1250 E. coli Host Strain</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

### [Appropriate engineering controls](#)

:  Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### [Environmental exposure controls](#)

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

### [Individual protection measures](#)

## Section 8. Exposure controls and personal protection

- Hygiene measures** : Handle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** :
- |                              |         |
|------------------------------|---------|
| Transpack Blue Tube          | Liquid. |
| Transpack Red Tube           | Liquid. |
| Big Blue Control Genomic DNA | Liquid. |
| SCS-8 E. coli Strain         | Liquid. |
| G1250 E. coli Host Strain    | Liquid. |
| Control Phage Solution       | Liquid. |
- Colour** :
- |                              |                |
|------------------------------|----------------|
| Transpack Blue Tube          | Not available. |
| Transpack Red Tube           | Not available. |
| Big Blue Control Genomic DNA | Not available. |
| SCS-8 E. coli Strain         | Not available. |
| G1250 E. coli Host Strain    | Not available. |
| Control Phage Solution       | Not available. |
- Odour** :
- |                              |                |
|------------------------------|----------------|
| Transpack Blue Tube          | Not available. |
| Transpack Red Tube           | Not available. |
| Big Blue Control Genomic DNA | Not available. |
| SCS-8 E. coli Strain         | Not available. |
| G1250 E. coli Host Strain    | Not available. |
| Control Phage Solution       | Not available. |
- Odour threshold** :
- |                              |                |
|------------------------------|----------------|
| Transpack Blue Tube          | Not available. |
| Transpack Red Tube           | Not available. |
| Big Blue Control Genomic DNA | Not available. |
| SCS-8 E. coli Strain         | Not available. |
| G1250 E. coli Host Strain    | Not available. |
| Control Phage Solution       | Not available. |

pH :

## Section 9. Physical and chemical properties







	Transpack Blue Tube	8
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	7.5
	SCS-8 E. coli Strain	7
	G1250 E. coli Host Strain	7
	Control Phage Solution	7.5
<b>Melting point</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	0°C (32°F)
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Boiling point</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	100°C (212°F)
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Flash point</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Evaporation rate</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Flammability (solid, gas)</b>	: Transpack Blue Tube	Not applicable.
	Transpack Red Tube	Not applicable.
	Big Blue Control Genomic DNA	Not applicable.
	SCS-8 E. coli Strain	Not applicable.
	G1250 E. coli Host Strain	Not applicable.
	Control Phage Solution	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Vapour pressure</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Vapour density</b>	:	

## Section 9. Physical and chemical properties

	Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Relative density</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Solubility</b>	: Transpack Blue Tube	Easily soluble in the following materials: cold water and hot water.
	Transpack Red Tube	Easily soluble in the following materials: cold water and hot water.
	Big Blue Control Genomic DNA	Easily soluble in the following materials: cold water and hot water.
	SCS-8 E. coli Strain	Soluble in the following materials: cold water and hot water.
	G1250 E. coli Host Strain	Soluble in the following materials: cold water and hot water.
	Control Phage Solution	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Auto-ignition temperature</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Decomposition temperature</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.
<b>Viscosity</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
	G1250 E. coli Host Strain	Not available.
	Control Phage Solution	Not available.



## Section 10. Stability and reactivity

<b>Reactivity</b>	:  Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	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. No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	:  Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>Possibility of hazardous reactions</b>	:  Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	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. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	:  Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Incompatible materials</b>	:  Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	:  Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 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,

## Section 10. Stability and reactivity

G1250 E. coli Host Strain

hazardous decomposition products should not be produced.

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

Control Phage Solution

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
<b>Transpack Blue Tube</b> Sucrose	LD50 Oral	Rat	29700 mg/kg	-
<b>Transpack Red Tube</b> Sucrose	LD50 Oral	Rat	29700 mg/kg	-
<b>SCS-8 E. coli Strain</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>G1250 E. coli Host Strain</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SCS-8 E. coli Strain</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>G1250 E. coli Host Strain</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	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)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
G1250 E. coli Host Strain G1250 E. coli Host Strain	Category 2	Inhalation	kidneys

### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	: Transpack Blue Tube	Not available.
	Transpack Red Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.
	G1250 E. coli Host Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Control Phage Solution	Not available.

### Potential acute health effects

<b>Eye contact</b>	: Transpack Blue Tube	No known significant effects or critical hazards.
	Transpack Red Tube	No known significant effects or critical hazards.
	Big Blue Control Genomic DNA	No known significant effects or critical hazards.
	SCS-8 E. coli Strain	No known significant effects or critical hazards.
	G1250 E. coli Host Strain	No known significant effects or critical hazards.
	Control Phage Solution	No known significant effects or critical hazards.

<b>Inhalation</b>	: Transpack Blue Tube	No known significant effects or critical hazards.
	Transpack Red Tube	No known significant effects or critical hazards.
	Big Blue Control Genomic DNA	No known significant effects or critical hazards.
	SCS-8 E. coli Strain	No known significant effects or critical hazards.
	G1250 E. coli Host Strain	No known significant effects or critical hazards.
	Control Phage Solution	No known significant effects or critical hazards.

<b>Skin contact</b>	: Transpack Blue Tube	No known significant effects or critical hazards.
	Transpack Red Tube	No known significant effects or critical hazards.
	Big Blue Control Genomic DNA	No known significant effects or critical hazards.
	SCS-8 E. coli Strain	No known significant effects or critical hazards.
	G1250 E. coli Host Strain	No known significant effects or critical hazards.
	Control Phage Solution	No known significant effects or critical hazards.

<b>Ingestion</b>	: Transpack Blue Tube	No known significant effects or critical hazards.
	Transpack Red Tube	No known significant effects or critical hazards.
	Big Blue Control Genomic DNA	No known significant effects or critical hazards.
	SCS-8 E. coli Strain	No known significant effects or critical hazards.
	G1250 E. coli Host Strain	No known significant effects or critical hazards.
	Control Phage Solution	No known significant effects or critical hazards.

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

<b>Eye contact</b>	: Transpack Blue Tube	No specific data.
	Transpack Red Tube	No specific data.
	Big Blue Control Genomic DNA	No specific data.
	SCS-8 E. coli Strain	No specific data.
	G1250 E. coli Host Strain	No specific data.
	Control Phage Solution	No specific data.

## Section 11. Toxicological information

<b>Inhalation</b>	:	Transpack Blue Tube	No specific data.
		Transpack Red Tube	No specific data.
		Big Blue Control Genomic DNA	No specific data.
		SCS-8 E. coli Strain	No specific data.
		G1250 E. coli Host Strain	No specific data.
		Control Phage Solution	No specific data.
<b>Skin contact</b>	:	Transpack Blue Tube	No specific data.
		Transpack Red Tube	No specific data.
		Big Blue Control Genomic DNA	No specific data.
		SCS-8 E. coli Strain	No specific data.
		G1250 E. coli Host Strain	No specific data.
		Control Phage Solution	No specific data.
<b>Ingestion</b>	:	Transpack Blue Tube	No specific data.
		Transpack Red Tube	No specific data.
		Big Blue Control Genomic DNA	No specific data.
		SCS-8 E. coli Strain	No specific data.
		G1250 E. coli Host Strain	No specific data.
		Control Phage Solution	No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

<b>General</b>	:	Transpack Blue Tube	No known significant effects or critical hazards.
		Transpack Red Tube	No known significant effects or critical hazards.
		Big Blue Control Genomic DNA	No known significant effects or critical hazards.
		SCS-8 E. coli Strain	No known significant effects or critical hazards.
		G1250 E. coli Host Strain	May cause damage to organs through prolonged or repeated exposure if inhaled.
		Control Phage Solution	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	Transpack Blue Tube	No known significant effects or critical hazards.
		Transpack Red Tube	No known significant effects or critical hazards.
		Big Blue Control Genomic DNA	No known significant effects or critical hazards.
		SCS-8 E. coli Strain	No known significant effects or critical hazards.
		G1250 E. coli Host Strain	No known significant effects or critical hazards.
		Control Phage Solution	No known significant effects or critical hazards.
<b>Mutagenicity</b>	:	Transpack Blue Tube	No known significant effects or critical hazards.
		Transpack Red Tube	No known significant effects or critical hazards.
		Big Blue Control Genomic DNA	No known significant effects or critical hazards.
		SCS-8 E. coli Strain	No known significant effects or critical hazards.
		G1250 E. coli Host Strain	No known significant effects or critical hazards.
		Control Phage Solution	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Teratogenicity</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	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. No known significant effects or critical hazards.
<b>Developmental effects</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	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. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Transpack Blue Tube Transpack Red Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain G1250 E. coli Host Strain Control Phage Solution	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. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>SCS-8 E. coli Strain</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>G1250 E. coli Host Strain</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>SCS-8 E. coli Strain</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>G1250 E. coli Host Strain</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

### Bioaccumulative potential

## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Transpack Blue Tube</b> Sucrose	-3.7	-	low
<b>Transpack Red Tube</b> Sucrose	-3.7	-	low
<b>SCS-8 E. coli Strain</b> Glycerol	-1.76	-	low
<b>G1250 E. coli Host Strain</b> Glycerol	-1.76	-	low

### Mobility in soil

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

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

## Section 13. Disposal considerations

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

## Section 14. Transport information

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

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

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

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

5, 5

### 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.

## Section 15. Regulatory information

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

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

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 23/05/2018

**Date of previous issue** : 21/01/2016

**Version** : 4

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

### Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> 1250 E. coli Host Strain STOT RE 2, H373 (kidneys) (inhalation)	Expert judgment

**References** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

## Section 16. Any other relevant information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.