

# SAFETY DATA SHEET



Rapid Excision Kit, Part Number 211204

## Section 1. Identification

**Product identifier** : Rapid Excision Kit, Part Number 211204  
**Part No. (Chemical Kit)** : 211204  
**Part No.** : PORT E. coli Host Strain 200310-81  
 XLOLR E. coli Strain 200304-81  
 704 helper phage 200254-81

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

Analytical reagent.

PORT E. coli Host Strain 0.5 ml (500 µl)  
 XLOLR E. coli Strain 500 µl  
 704 helper phage 1 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.

PORT E. coli Host Strain Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%  
 XLOLR E. coli Strain Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%

### GHS label elements

**Signal word** : PORT E. coli Host Strain No signal word.  
 XLOLR E. coli Strain No signal word.  
 704 helper phage No signal word.

**Hazard statements** : PORT E. coli Host Strain No known significant effects or critical hazards.  
 XLOLR E. coli Strain No known significant effects or critical hazards.  
 704 helper phage No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : PORT E. coli Host Strain Not applicable.  
 XLOLR E. coli Strain Not applicable.  
 704 helper phage Not applicable.

**Response** : PORT E. coli Host Strain Not applicable.  
 XLOLR E. coli Strain Not applicable.  
 704 helper phage Not applicable.

**Storage** : PORT E. coli Host Strain Not applicable.  
 XLOLR E. coli Strain Not applicable.  
 704 helper phage Not applicable.

**Disposal** : PORT E. coli Host Strain Not applicable.  
 XLOLR E. coli Strain Not applicable.  
 704 helper phage Not applicable.

## Section 2. Hazard(s) identification

### Supplemental label elements

**Additional warning phrases** :  PORT E. coli Host Strain Not applicable.  
 XLOLR E. coli Strain Not applicable.  
 704 helper phage Not applicable.

**Other hazards which do not result in classification** :  PORT E. coli Host Strain None known.  
 XLOLR E. coli Strain None known.  
 704 helper phage None known.

## Section 3. Composition and ingredient information

**Substance/mixture** :  PORT E. coli Host Strain Mixture  
 XLOLR E. coli Strain Mixture  
 704 helper phage Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<input checked="" type="checkbox"/> PORT E. coli Host Strain Glycerol	≥10 - ≤30	56-81-5
XLOLR 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

### Description of necessary first aid measures

**Eye contact** :  PORT 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. Get medical attention if irritation occurs.  
 XLOLR 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.  
 704 helper phage 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** :  PORT E. coli Host Strain Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  
 XLOLR E. coli Strain Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  
 704 helper phage Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** :  PORT E. coli Host Strain Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  
 XLOLR E. coli Strain Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  
 704 helper phage Flush contaminated skin with plenty of water.

## Section 4. First aid measures

<b>Ingestion</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	XLOLR 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.
	704 helper phage	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>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	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>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	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

<b>Eye contact</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No specific data. No specific data. No specific data.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No specific data. No specific data. No specific data.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No specific data. No specific data. No specific data.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No specific data. No specific data. No specific data.

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

## Section 4. First aid measures

<b>Notes to physician</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XLOLR E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	704 helper phage	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	No specific treatment.
	XLOLR E. coli Strain	No specific treatment.
	704 helper phage	No specific treatment.
<b>Protection of first-aiders</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	No action shall be taken involving any personal risk or without suitable training.
	XLOLR E. coli Strain	No action shall be taken involving any personal risk or without suitable training.
	704 helper phage	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>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	Use an extinguishing agent suitable for the surrounding fire.
	XLOLR E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
	704 helper phage	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	None known.
	XLOLR E. coli Strain	None known.
	704 helper phage	None known.
<b>Specific hazards arising from the chemical</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
	XLOLR E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
	704 helper phage	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	XLOLR E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	704 helper phage	No specific data.
<b>Special protective actions for fire-fighters</b>	: <input checked="" type="checkbox"/> PORT 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.
	XLOLR 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.
	704 helper phage	Promptly isolate the scene by removing all persons

## Section 5. Firefighting measures

### Special protective equipment for fire-fighters

:  PORT E. coli Host Strain

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

XLOLR 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.

704 helper phage

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

:  PORT 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. Put on appropriate personal protective equipment.

XLOLR 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.

704 helper phage

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** :  PORT 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".

XLOLR 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".

704 helper phage

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** :  PORT 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).

XLOLR 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).

704 helper phage

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 6. Accidental release measures

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>	: <input checked="" type="checkbox"/> PORT 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.
	XLOR 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.
	704 helper phage	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

<b>Protective measures</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	Put on appropriate personal protective equipment (see Section 8).
	XLOR E. coli Strain	Put on appropriate personal protective equipment (see Section 8).
	704 helper phage	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: <input checked="" type="checkbox"/> PORT 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.
	XLOR E. coli Strain	Potentially biohazardous material. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	704 helper phage	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.



## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : PORT E. coli Host Strain

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

XLOLR E. coli Strain

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

704 helper phage

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
<input checked="" type="checkbox"/> PORT E. coli Host Strain Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
XLOLR E. coli Strain 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

- |                                  |  |                 |
|----------------------------------|--|-----------------|
| <b>Physical state</b>            | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Liquid.         |
|                                  | XLOLR E. coli Strain   | Liquid.         |
|                                  | 704 helper phage   | Liquid.         |
| <b>Colour</b>                    | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Not available.  |
|                                  | XLOLR E. coli Strain   | Not available.  |
|                                  | 704 helper phage   | Not available.  |
| <b>Odour</b>                     | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Not available.  |
|                                  | XLOLR E. coli Strain   | Not available.  |
|                                  | 704 helper phage   | Not available.  |
| <b>Odour threshold</b>           | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Not available.  |
|                                  | XLOLR E. coli Strain   | Not available.  |
|                                  | 704 helper phage   | Not available.  |
| <b>pH</b>                        | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | 7               |
|                                  | XLOLR E. coli Strain   | 7               |
|                                  | 704 helper phage   | 7.5             |
| <b>Melting point</b>             | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Not available.  |
|                                  | XLOLR E. coli Strain   | Not available.  |
|                                  | 704 helper phage   | 0°C (32°F)      |
| <b>Boiling point</b>             | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Not available.  |
|                                  | XLOLR E. coli Strain   | Not available.  |
|                                  | 704 helper phage   | 100°C (212°F)   |
| <b>Flash point</b>               | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Not available.  |
|                                  | XLOLR E. coli Strain   | Not available.  |
|                                  | 704 helper phage   | Not available.  |
| <b>Evaporation rate</b>          | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Not available.  |
|                                  | XLOLR E. coli Strain   | Not available.  |
|                                  | 704 helper phage   | Not available.  |
| <b>Flammability (solid, gas)</b> | : <input checked="" type="checkbox"/> PORT E. coli Host Strain | Not applicable. |
|                                  | XLOLR E. coli Strain   | Not applicable. |
|                                  | 704 helper phage   | Not applicable. |



## Section 9. Physical and chemical properties

<b>Lower and upper explosive (flammable) limits</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not available. Not available. Not available.
<b>Vapour pressure</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not available. Not available. Not available.
<b>Vapour density</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not available. Not available. Not available.
<b>Relative density</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not available. Not available. Not available.
<b>Solubility</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain  XLOLR E. coli Strain  704 helper phage	Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not available. Not available. Not available.
<b>Auto-ignition temperature</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not available. Not available. Not available.
<b>Decomposition temperature</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not available. Not available. Not available.
<b>Viscosity</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not available. Not available. Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain  XLOLR E. coli Strain  704 helper phage	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>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	The product is stable. The product is stable. The product is stable.
<b>Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain  XLOLR E. coli Strain  704 helper phage	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>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No specific data. No specific data. No specific data.
<b>Incompatible materials</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XLOLR E. coli Strain	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	704 helper phage	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
<input checked="" type="checkbox"/> PORT E. coli Host Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-
XLOLR E. coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<input checked="" type="checkbox"/> PORT E. coli Host Strain Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
XLOLR E. coli Strain Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

## Section 11. Toxicological information

**Information on likely routes of exposure** : PORT E. coli Host Strain Routes of entry anticipated: Oral, Dermal, Inhalation.  
XLOLR E. coli Strain Routes of entry anticipated: Oral, Dermal, Inhalation.  
704 helper phage Not available.

### Potential acute health effects

**Eye contact** : PORT E. coli Host Strain No known significant effects or critical hazards.  
XLOLR E. coli Strain No known significant effects or critical hazards.  
704 helper phage No known significant effects or critical hazards.

**Inhalation** : PORT E. coli Host Strain No known significant effects or critical hazards.  
XLOLR E. coli Strain No known significant effects or critical hazards.  
704 helper phage No known significant effects or critical hazards.

**Skin contact** : PORT E. coli Host Strain No known significant effects or critical hazards.  
XLOLR E. coli Strain No known significant effects or critical hazards.  
704 helper phage No known significant effects or critical hazards.

**Ingestion** : PORT E. coli Host Strain No known significant effects or critical hazards.  
XLOLR E. coli Strain No known significant effects or critical hazards.  
704 helper phage No known significant effects or critical hazards.

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

**Eye contact** : PORT E. coli Host Strain No specific data.  
XLOLR E. coli Strain No specific data.  
704 helper phage No specific data.

**Inhalation** : PORT E. coli Host Strain No specific data.  
XLOLR E. coli Strain No specific data.  
704 helper phage No specific data.

**Skin contact** : PORT E. coli Host Strain No specific data.  
XLOLR E. coli Strain No specific data.  
704 helper phage No specific data.

**Ingestion** : PORT E. coli Host Strain No specific data.  
XLOLR E. coli Strain No specific data.  
704 helper phage 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

Not available.

**General** : PORT E. coli Host Strain No known significant effects or critical hazards.  
XLOLR E. coli Strain No known significant effects or critical hazards.  
704 helper phage No known significant effects or critical hazards.

**Carcinogenicity** : PORT E. coli Host Strain No known significant effects or critical hazards.  
XLOLR E. coli Strain No known significant effects or critical hazards.  
704 helper phage No known significant effects or critical hazards.

**Mutagenicity** : PORT E. coli Host Strain No known significant effects or critical hazards.  
XLOLR E. coli Strain No known significant effects or critical hazards.  
704 helper phage No known significant effects or critical hazards.

**Teratogenicity** : PORT E. coli Host Strain No known significant effects or critical hazards.  
XLOLR E. coli Strain No known significant effects or critical hazards.  
704 helper phage No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Developmental effects</b>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOR E. coli Strain 704 helper phage	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>	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOR E. coli Strain 704 helper phage	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
<input checked="" type="checkbox"/> PORT E. coli Host Strain Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
XLOR 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
<input checked="" type="checkbox"/> PORT E. coli Host Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
XLOR E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<input checked="" type="checkbox"/> PORT E. coli Host Strain Glycerol	-1.76	-	low
XLOR E. coli Strain 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

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)

Not listed.

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

Not listed.

### Inventory list

**Australia** : All components are listed or exempted.  
**Canada** : Not determined.  
**China** : All components are listed or exempted.  
**Europe** : All components are listed or exempted.  
**Japan** : **Japan inventory (ENCS):** All components are listed or exempted.  
**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.

## Section 15. Regulatory information

- 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

**Date of issue/Date of revision** : 22/01/2018

**Date of previous issue** : 27/10/2015.

**Version** : 5

### 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

**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.