CONFORMS TO CODE OF PRACTICE FOR THE PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS

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. :
  XPORT 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

Material uses :
  XPORT E. coli Host Strain 0.5 ml
  XLOLR E. coli Strain 0.5 ml
  704 helper phage 1 ml (≥1.0x10E8 pfu/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.

GHS label elements

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

Hazard statements :
  XPORT 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 :
  XPORT E. coli Host Strain : Not applicable.
  XLOLR E. coli Strain : Not applicable.
  704 helper phage : Not applicable.

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

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

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

Supplemental label elements

Date of issue/Date of revision : 01/04/2020
Date of previous issue : 22/01/2018
Version : 6
Section 2. Hazard(s) identification

Additional warning phrases

- XPORT 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

- XPORT E. coli Host Strain: None known.
- XLOLR E. coli Strain: None known.
- 704 helper phage: None known.

Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPORT E. coli Host Strain</td>
<td>Glycerol</td>
<td>≥10 - ≤30</td>
<td>56-81-5</td>
</tr>
<tr>
<td>XLOLR E. coli Strain</td>
<td>Glycerol</td>
<td>≥10 - ≤30</td>
<td>56-81-5</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Description of necessary first aid measures</th>
<th>XPORT E. coli Host Strain</th>
<th>XLOLR E. coli Strain</th>
<th>704 helper phage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>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.</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

Ingestion:
- XPORT E. coli Host 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.
- 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

Eye contact:
- XPORT 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:
- XPORT 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:
- XPORT 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:
- XPORT 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.

Over-exposure signs/symptoms

Eye contact:
- XPORT E. coli Host Strain: No specific data.
- XLOLR E. coli Strain: No specific data.
- 704 helper phage: No specific data.

Inhalation:
- XPORT E. coli Host Strain: No specific data.
- XLOLR E. coli Strain: No specific data.
- 704 helper phage: No specific data.

Skin contact:
- XPORT E. coli Host Strain: No specific data.
- XLOLR E. coli Strain: No specific data.
- 704 helper phage: No specific data.

Ingestion:
- XPORT E. coli Host Strain: No specific data.
- XLOLR E. coli Strain: No specific data.
- 704 helper phage: No specific data.

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

Notes to physician:
- XPORT 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.
Section 4. First aid measures

Specific treatments:
- XPORT E. coli Host Strain: No specific treatment.
- XLOLR E. coli Strain: No specific treatment.
- 704 helper phage: No specific treatment.

Protection of first-aiders:
- XPORT 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

Suitable extinguishing media:
- XPORT 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.

Unsuitable extinguishing media:
- XPORT E. coli Host Strain: None known.
- XLOLR E. coli Strain: None known.
- 704 helper phage: None known.

Specific hazards arising from the chemical:
- XPORT 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.

Hazardous thermal decomposition products:
- XPORT 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.

Special protective actions for fire-fighters:
- XPORT 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 from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Section 5. Firefighting measures

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>XPORT E. coli Host Strain</th>
<th>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLOLR E. coli Strain</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>704 helper phage</td>
<td></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>

Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

<table>
<thead>
<tr>
<th>XPORT E. coli Host Strain</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLOLR E. coli Strain</td>
<td>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.</td>
</tr>
<tr>
<td>704 helper phage</td>
<td>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.</td>
</tr>
</tbody>
</table>

**For emergency responders**

<table>
<thead>
<tr>
<th>XPORT E. coli Host Strain</th>
<th>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 &quot;For non-emergency personnel&quot;.</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLOLR E. coli Strain</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>704 helper phage</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
</tbody>
</table>

**Environmental precautions**

<table>
<thead>
<tr>
<th>XPORT E. coli Host Strain</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLOLR E. coli Strain</td>
<td>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).</td>
</tr>
<tr>
<td>704 helper phage</td>
<td>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).</td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

Methods and material for containment and cleaning up

Methods for cleaning up: XPORT 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.

XPORT 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.

XLOLR 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

Protective measures: XPORT E. coli Host Strain
Put on appropriate personal protective equipment (see Section 8).

XLOLR E. coli Strain
Put on appropriate personal protective equipment (see Section 8).

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

Advice on general occupational hygiene: XPORT 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.

XLOLR 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.

Conditions for safe storage, including any incompatibilities: XPORT 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
Section 7. Handling and storage

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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

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPORT E. coli Host Strain</td>
<td>Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
<tr>
<td>XLOLR E. coli Strain</td>
<td>Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
</tbody>
</table>

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

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.
Section 8. Exposure controls and personal protection

**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**
- XPORT E. coli Host Strain: Liquid.
- XLOLR E. coli Strain: Liquid.
- 704 helper phage: Liquid.

**Colour**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: Not available.

**Odour**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: Not available.

**Odour threshold**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: Not available.

**pH**
- XPORT E. coli Host Strain: 7
- XLOLR E. coli Strain: 7
- 704 helper phage: 7.5

**Melting point**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: 0°C (32°F)

**Boiling point**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: 100°C (212°F)

**Flash point**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: Not applicable.

**Evaporation rate**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: Not available.

**Flammability (solid, gas)**
- XPORT E. coli Host Strain: Not applicable.
- XLOLR E. coli Strain: Not applicable.
- 704 helper phage: Not applicable.

**Lower and upper explosive (flammable) limits**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: Not available.

**Vapour pressure**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: Not available.

**Vapour density**
- XPORT E. coli Host Strain: Not available.
- XLOLR E. coli Strain: Not available.
- 704 helper phage: Not available.
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>XPORT E. coli Host Strain</th>
<th>XLOLR E. coli Strain</th>
<th>704 helper phage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>XPORT E. coli Host Strain</th>
<th>XLOLR E. coli Strain</th>
<th>704 helper phage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reactivity</strong></td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td><strong>Chemical stability</strong></td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td><strong>Possibility of hazardous reactions</strong></td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td><strong>Conditions to avoid</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Incompatible materials</strong></td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td><strong>Hazardous decomposition products</strong></td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>
# Section 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPORT E. coli Host Strain Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>XLOLR E. coli Strain Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPORT E. coli Host Strain Glycerol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
<tr>
<td>XLOLR E. coli Strain Glycerol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
</tbody>
</table>

### Sensitisation

Not available.

### Mutagenicity

**Conclusion/Summary**: Not available.

### Carcinogenicity

**Conclusion/Summary**: Not available.

### Reproductive toxicity

**Conclusion/Summary**: Not available.

### Teratogenicity

**Conclusion/Summary**: Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

**XPORT 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

**XPORT 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

**XPORT 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

**XPORT 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

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

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

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

**Ingestion**
- XPORT 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**

**General**
- XPORT 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**
- XPORT 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**
- XPORT 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**
- XPORT 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.

**Developmental effects**
- XPORT 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.

**Fertility effects**
- XPORT 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.

**Numerical measures of toxicity**

**Acute toxicity estimates**
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPORT E. coli Host Strain</td>
<td>12600</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XLOLR E. coli Strain</td>
<td>12600</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 12. Ecological information

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPORT E. coli Host Strain</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XLOLR E. coli Strain</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPORT E. coli Host Strain</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XLOLR E. coli Strain</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPOw</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPORT E. coli Host Strain</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XLOLR E. coli Strain</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mobility in soil**

- Soil/water partition coefficient (KOC) : Not available.

**Other adverse effects** : No known significant effects or critical hazards.
Section 13. Disposal considerations

| Disposal methods | The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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 IMO instruments | Not available. |

Section 15. Regulatory information

| Standard for the Uniform Scheduling of Medicines and Poisons | |
| 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 | 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. |
| New Zealand | All components are listed or exempted. |
| Philippines | Not determined. |
| Republic of Korea | All components are listed or exempted. |
| Taiwan | All components are listed or exempted. |
| Thailand | Not determined. |

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Section 15. Regulatory information

- **Turkey**: Not determined.
- **United States**: All components are active or exempted.
- **Viet Nam**: Not determined.

Section 16. Any other relevant information

### History
- **Date of issue/Date of revision**: 01/04/2020
- **Date of previous issue**: 22/01/2018
- **Version**: 6

### Key to abbreviations
- ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- 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
- N/A = Not available
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

### Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td></td>
</tr>
</tbody>
</table>

### References
- Not available.

**Indicates information that has changed from previously issued version.**

**Notice to reader**

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