SAFETY DATA SHEET

pCMV-Script Vector, Part Number 212220

Section 1. Identification

Product identifier : pCMV-Script Vector, Part Number 212220
Part no. (chemical kit) : 212220
Part no. : pCMV-Script vector 212220-51
           XL1-Blue MRF’ E.coli Strain 200301-81

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

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

Material uses : Analytical reagent.
                pCMV-Script vector 0.02 ml (20 µg  1 µg/µl)
                XL1-Blue MRF’ E.coli Strain 0.5 ml

Section 2. Hazard(s) identification

Classification of the substance or mixture
Not classified.

GHS label elements

Signal word : pCMV-Script vector
              XL1-Blue MRF’ E.coli Strain
              No signal word.

Hazard statements : pCMV-Script vector
                     XL1-Blue MRF’ E.coli Strain
                     No known significant effects or critical hazards.

Precautionary statements

Prevention : pCMV-Script vector
             XL1-Blue MRF’ E.coli Strain
             Not applicable.

Response : pCMV-Script vector
           XL1-Blue MRF’ E.coli Strain
           Not applicable.

Storage : pCMV-Script vector
          XL1-Blue MRF’ E.coli Strain
          Not applicable.

Disposal : pCMV-Script vector
          XL1-Blue MRF’ E.coli Strain
          Not applicable.

Supplemental label elements

Additional warning phrases : pCMV-Script vector
                            XL1-Blue MRF’ E.coli Strain
                            Not applicable.

Other hazards which do not result in classification : pCMV-Script vector
                                                  XL1-Blue MRF’ E.coli Strain
                                                  None known.

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Version : 4
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>pCMV-Script vector</td>
<td>Glycerol</td>
<td>≥10 - ≤30</td>
<td>56-81-5</td>
</tr>
<tr>
<td>XL1-Blue MRF’ E.coli Strain</td>
<td></td>
<td></td>
<td></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

**Description of necessary first aid measures**

**Eye contact**
- pCMV-Script vector: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- XL1-Blue MRF’ E.coli Strain: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation**
- pCMV-Script vector: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- XL1-Blue MRF’ E.coli Strain: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**
- pCMV-Script vector: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- XL1-Blue MRF’ E.coli Strain: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**
- pCMV-Script vector: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- XL1-Blue MRF’ E.coli Strain: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

**Potential acute health effects**

**Eye contact**
- pCMV-Script vector: No known significant effects or critical hazards.
- XL1-Blue MRF’ E.coli Strain: No known significant effects or critical hazards.

**Inhalation**
- pCMV-Script vector: No known significant effects or critical hazards.
- XL1-Blue MRF’ E.coli Strain: No known significant effects or critical hazards.
**Section 4. First aid measures**

**Skin contact**
- **pCMV-Script vector**
  - No known significant effects or critical hazards.
- **XL1-Blue MRF’ E.coli Strain**
  - No known significant effects or critical hazards.

**Ingestion**
- **pCMV-Script vector**
  - No known significant effects or critical hazards.
- **XL1-Blue MRF’ E.coli Strain**
  - No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**
- **pCMV-Script vector**
  - No specific data.
- **XL1-Blue MRF’ E.coli Strain**
  - No specific data.

**Inhalation**
- **pCMV-Script vector**
  - No specific data.
- **XL1-Blue MRF’ E.coli Strain**
  - No specific data.

**Skin contact**
- **pCMV-Script vector**
  - No specific data.
- **XL1-Blue MRF’ E.coli Strain**
  - No specific data.

**Ingestion**
- **pCMV-Script vector**
  - No specific data.
- **XL1-Blue MRF’ E.coli Strain**
  - No specific data.

**Notes to physician**
- **pCMV-Script vector**
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **XL1-Blue MRF’ E.coli Strain**
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
- **pCMV-Script vector**
  - No specific treatment.
- **XL1-Blue MRF’ E.coli Strain**
  - No specific treatment.

**Protection of first-aiders**
- **pCMV-Script vector**
  - No action shall be taken involving any personal risk or without suitable training.
- **XL1-Blue MRF’ E.coli Strain**
  - No action shall be taken involving any personal risk or without suitable training.

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

**See toxicological information (Section 11)**

**Section 5. Firefighting measures**

**Extinguishing media**

**Suitable extinguishing media**
- **pCMV-Script vector**
  - Use an extinguishing agent suitable for the surrounding fire.
- **XL1-Blue MRF’ E.coli Strain**
  - Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**
- **pCMV-Script vector**
  - None known.
- **XL1-Blue MRF’ E.coli Strain**
  - None known.

**Specific hazards arising from the chemical**
- **pCMV-Script vector**
  - In a fire or if heated, a pressure increase will occur and the container may burst.
- **XL1-Blue MRF’ E.coli Strain**
  - In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**
- **pCMV-Script vector**
  - No specific data. Decomposition products may include the following materials:
    - carbon dioxide
    - carbon monoxide
    - halogenated compounds
    - metal oxide/oxides
Section 5. Firefighting measures

**Special protective actions for fire-fighters**

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

- XL1-Blue MRF E.coli Strain
  - Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**

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

- XL1-Blue MRF 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.

**Hazchem code**

- pCMV-Script vector
  - Not available.

- XL1-Blue MRF E.coli Strain
  - Not available.

Section 6. Accidental release measures

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

**For non-emergency personnel**

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

- XL1-Blue MRF E.coli Strain
  - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

**For emergency responders**

- pCMV-Script vector
  - 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".

- XL1-Blue MRF 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".

**Environmental precautions**

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

- XL1-Blue MRF E.coli Strain
  - Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and material for containment and cleaning up**
Section 6. Accidental release measures

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

- **XL1-Blue MRF’ E.coli Strain**: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling:

**Protective measures**:
- **pCMV-Script vector**: Put on appropriate personal protective equipment (see Section 8).

- **XL1-Blue MRF’ E.coli Strain**: Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene**:
- **pCMV-Script vector**: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- **XL1-Blue MRF’ 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.

**Conditions for safe storage, including any incompatibilities**:
- **pCMV-Script vector**: 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.

- **XL1-Blue MRF’ 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.
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>XL1-Blue MRF’ E.coli Strain</td>
<td>Safe Work Australia (Australia, 1/2014). 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.

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:
- pCMV-Script vector: Liquid.
- XL1-Blue MRF’ E.coli Strain: Liquid.

Colour:
- pCMV-Script vector: Not available.
- XL1-Blue MRF’ E.coli Strain: Not available.

Odour:
- pCMV-Script vector: Not available.
- XL1-Blue MRF’ E.coli Strain: Not available.

Odour threshold:
- pCMV-Script vector: Not available.
- XL1-Blue MRF’ E.coli Strain: Not available.

pH:
- pCMV-Script vector: 7.5
- XL1-Blue MRF’ E.coli Strain: 7

Melting point:
- pCMV-Script vector: 0°C (32°F)
- XL1-Blue MRF’ E.coli Strain: Not available.
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>pCMV-Script vector</th>
<th>XL1-Blue MRF’ E.coli Strain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td></td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td></td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>pCMV-Script vector</th>
<th>XL1-Blue MRF’ E.coli Strain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td></td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td></td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td></td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td></td>
<td>No specific data.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td></td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td></td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

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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>XL1-Blue MRF’ 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>XL1-Blue MRF’ E.coli Strain Glycerol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Routes of entry anticipated</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-Script vector</td>
<td>Oral, Dermal, Inhalation</td>
</tr>
</tbody>
</table>

Potential acute health effects

<table>
<thead>
<tr>
<th>Route</th>
<th>pCMV-Script vector</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>XL1-Blue MRF’ E.coli Strain</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Inhilation</td>
<td>XL1-Blue MRF’ E.coli Strain</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>XL1-Blue MRF’ E.coli Strain</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>XL1-Blue MRF’ E.coli Strain</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

<table>
<thead>
<tr>
<th>Route</th>
<th>pCMV-Script vector</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>XL1-Blue MRF’ E.coli Strain</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Inhilation</td>
<td>XL1-Blue MRF’ E.coli Strain</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

**Skin contact**: pCMV-Script vector No specific data.  
XL1-Blue MRF' E.coli Strain No specific data.  

**Ingestion**: pCMV-Script vector No specific data.  
XL1-Blue MRF' E.coli Strain No specific data.

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

**Short term exposure**

- **Potential immediate 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**: pCMV-Script vector No known significant effects or critical hazards.  
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.
- **Carcinogenicity**: pCMV-Script vector No known significant effects or critical hazards.  
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.
- **Mutagenicity**: pCMV-Script vector No known significant effects or critical hazards.  
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.
- **Teratogenicity**: pCMV-Script vector No known significant effects or critical hazards.  
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.
- **Developmental effects**: pCMV-Script vector No known significant effects or critical hazards.  
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.
- **Fertility effects**: pCMV-Script vector No known significant effects or critical hazards.  
XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.

**Numerical measures of toxicity**

- **Acute toxicity estimates**: Not available.

**Other information**: pCMV-Script vector Not available.  
XL1-Blue MRF' E.coli Strain Not available.

### 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>XL1-Blue MRF' E.coli Strain Glycerol</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</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>XL1-Blue MRF' E.coli Strain Glycerol</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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Section 12. Ecological information

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP_{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>XL1-Blue MRF™ E.coli Strain</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in soil

- Soil/water partition coefficient (K_{oc}) : 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 spill 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

Date of issue/Date of revision : 26/03/2018
Date of previous issue : 15/07/2016
Version : 4
Section 15. Regulatory information

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.
Taiwan : All components are listed or exempted.
Thailand : Not determined.
Turkey : Not determined.
United States : All components are listed or exempted.
Viet Nam : Not determined.

Section 16. Any other relevant information

History

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Key to abbreviations

ADG = Australian Dangerous Goods
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

<table>
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<th>Classification</th>
<th>Justification</th>
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<tbody>
<tr>
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References

Not available.

Indicates information that has changed from previously issued version.

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