### Section 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>pCMV-Script XR Predigested Vector, Part Number 212224</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No. (Chemical Kit)</td>
<td>212224</td>
</tr>
<tr>
<td>Part No.</td>
<td>pCMV-Script XR Predigested Vector 212224-51 XR LacZ Test Insert 217430-52</td>
</tr>
</tbody>
</table>

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

- **Analytical reagent.**
  - pCMV-Script XR Predigested Vector: 0.055 ml (55 µl 30 ng/µl)
  - XR LacZ Test Insert: 0.005 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**
  - pCMV-Script XR Predigested Vector: No signal word.
  - XR LacZ Test Insert: No signal word.

- **Hazard statements**
  - pCMV-Script XR Predigested Vector: No known significant effects or critical hazards.
  - XR LacZ Test Insert: No known significant effects or critical hazards.

#### Precautionary statements

- **Prevention**
  - pCMV-Script XR Predigested Vector: Not applicable.
  - XR LacZ Test Insert: Not applicable.

- **Response**
  - pCMV-Script XR Predigested Vector: Not applicable.
  - XR LacZ Test Insert: Not applicable.

- **Storage**
  - pCMV-Script XR Predigested Vector: Not applicable.
  - XR LacZ Test Insert: Not applicable.

- **Disposal**
  - pCMV-Script XR Predigested Vector: Not applicable.
  - XR LacZ Test Insert: Not applicable.

#### Supplemental label elements

Not applicable.

#### Other hazards which do not result in classification

- None known.
Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>CAS number/other identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-Script XR Predigested Vector</td>
<td>Mixture</td>
</tr>
<tr>
<td>XR LacZ Test Insert</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

**CAS number/other identifiers**

There are no 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**

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**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**

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**

No known significant effects or critical hazards.

**Inhalation**

No known significant effects or critical hazards.

**Skin contact**

No known significant effects or critical hazards.

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Section 4. First aid measures

**Ingestion**
- pCMV-Script XR Predigested Vector: No known significant effects or critical hazards.
- XR LacZ Test Insert: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**
- pCMV-Script XR Predigested Vector: No specific data.
- XR LacZ Test Insert: No specific data.

**Inhalation**
- pCMV-Script XR Predigested Vector: No specific data.
- XR LacZ Test Insert: No specific data.

**Skin contact**
- pCMV-Script XR Predigested Vector: No specific data.
- XR LacZ Test Insert: No specific data.

**Ingestion**
- pCMV-Script XR Predigested Vector: No specific data.
- XR LacZ Test Insert: No specific data.

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

**Notes to physician**
- pCMV-Script XR Predigested Vector: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- XR LacZ Test Insert: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
- XR LacZ Test Insert: No specific treatment.

**Protection of first-aiders**
- pCMV-Script XR Predigested Vector: No action shall be taken involving any personal risk or without suitable training.
- XR LacZ Test Insert: 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**
- pCMV-Script XR Predigested Vector: Use an extinguishing agent suitable for the surrounding fire.
- XR LacZ Test Insert: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**
- pCMV-Script XR Predigested Vector: None known.
- XR LacZ Test Insert: None known.

**Specific hazards arising from the chemical**
- pCMV-Script XR Predigested Vector: In a fire or if heated, a pressure increase will occur and the container may burst.
- XR LacZ Test Insert: In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**
- pCMV-Script XR Predigested Vector: No specific data.
- XR LacZ Test Insert: No specific data.
Section 5. Firefighting measures

Special protective actions for fire-fighters:
- pCMV-Script XR Predigested Vector
- XR LacZ Test Insert

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 XR Predigested Vector
- XR LacZ Test Insert

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:
- pCMV-Script XR Predigested Vector
- XR LacZ Test Insert

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 spill material. Put on appropriate personal protective equipment.

For emergency responders:
- pCMV-Script XR Predigested Vector
- XR LacZ Test Insert

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 XR Predigested Vector
- XR LacZ Test Insert

Avoid dispersal of spill 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

Methods for cleaning up:
- pCMV-Script XR Predigested Vector
- XR LacZ Test Insert

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.

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Section 6. Accidental release measures

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

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Put on appropriate personal protective equipment (see Section 8).</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-Script XR Predigested Vector</td>
<td></td>
</tr>
<tr>
<td>XR LacZ Test Insert</td>
<td></td>
</tr>
<tr>
<td>Advice on general occupational hygiene</td>
<td>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.</td>
</tr>
<tr>
<td>pCMV-Script XR Predigested Vector</td>
<td></td>
</tr>
<tr>
<td>XR LacZ Test Insert</td>
<td></td>
</tr>
</tbody>
</table>

Conditions for safe storage, including any incompatibilities

| pCMV-Script XR Predigested 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. |
| XR LacZ Test Insert | |

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits
None.

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.
Section 8. Exposure controls and personal protection

Individual protection measures

Hygiene measures: 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

XR LacZ Test Insert Liquid.

Colour: pCMV-Script XR Not available.
Predigested Vector XR LacZ Test Insert Not available.

Odour: pCMV-Script XR Not available.
Predigested Vector XR LacZ Test Insert Not available.

Odour threshold: pCMV-Script XR Not available.
Predigested Vector XR LacZ Test Insert Not available.

pH: pCMV-Script XR Predigested Vector 7.5
XR LacZ Test Insert 8.5

Melting point: pCMV-Script XR Predigested Vector 0°C (32°F)
XR LacZ Test Insert 0°C (32°F)

Boiling point: pCMV-Script XR Predigested Vector 100°C (212°F)
XR LacZ Test Insert 100°C (212°F)

Flash point: pCMV-Script XR Predigested Vector Not available.
XR LacZ Test Insert Not available.

Evaporation rate: pCMV-Script XR Predigested Vector Not available.
XR LacZ Test Insert Not available.
# Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>pCMV-Script XR Predigested Vector</th>
<th>pCMV-Script XR Predigested Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Easily 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>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td>Not available.</td>
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</tbody>
</table>

# Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>pCMV-Script XR Predigested Vector</th>
<th>pCMV-Script XR Predigested Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</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>Chemical stability</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</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>Conditions to avoid</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Hazardous decomposition products</th>
<th>pCMV-Script XR Predigested Vector</th>
<th>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>XR LacZ Test Insert</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
Not available.

Irritation/Corrosion
Not available.

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.

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>pCMV-Script XR Predigested Vector</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>XR LacZ Test Insert</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Potential acute health effects

Eye contact
pCMV-Script XR Predigested Vector
XR LacZ Test Insert
No known significant effects or critical hazards.

Inhalation
pCMV-Script XR Predigested Vector
XR LacZ Test Insert
No known significant effects or critical hazards.

Skin contact
pCMV-Script XR Predigested Vector
XR LacZ Test Insert
No known significant effects or critical hazards.

Ingestion
pCMV-Script XR Predigested Vector
XR LacZ Test Insert
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics
Section 11. Toxicological information

Eye contact : pCMV-Script XR Predigested Vector XR LacZ Test Insert No specific data.

Inhalation : pCMV-Script XR Predigested Vector XR LacZ Test Insert No specific data.

Skin contact : pCMV-Script XR Predigested Vector XR LacZ Test Insert No specific data.

Ingestion : pCMV-Script XR Predigested Vector XR LacZ Test Insert 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 : pCMV-Script XR Predigested Vector XR LacZ Test Insert No known significant effects or critical hazards.

Carcinogenicity : pCMV-Script XR Predigested Vector XR LacZ Test Insert No known significant effects or critical hazards.

Mutagenicity : pCMV-Script XR Predigested Vector XR LacZ Test Insert No known significant effects or critical hazards.

Teratogenicity : pCMV-Script XR Predigested Vector XR LacZ Test Insert No known significant effects or critical hazards.

Developmental effects : pCMV-Script XR Predigested Vector XR LacZ Test Insert No known significant effects or critical hazards.

Fertility effects : pCMV-Script XR Predigested Vector XR LacZ Test Insert No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates
Not available.
Section 12. Ecological information

**Toxicity**
Not available.

**Persistence and degradability**
Not available.

**Bioaccumulative potential**
Not available.

**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 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**
- Stockholm Convention on Persistent Organic Pollutants

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Section 15. Regulatory information

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list

<table>
<thead>
<tr>
<th>Country</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Canada</td>
<td>Not determined.</td>
</tr>
<tr>
<td>China</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Europe</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
<td>Japan inventory (ENCS): Not determined.</td>
</tr>
<tr>
<td></td>
<td>Japan inventory (ISHL): All components are listed or exempted.</td>
</tr>
<tr>
<td>Malaysia</td>
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</tr>
<tr>
<td>New Zealand</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Philippines</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Republic of Korea</td>
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<tr>
<td>Taiwan</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Thailand</td>
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<tr>
<td>Turkey</td>
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<tr>
<td>United States</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

Section 16. Any other relevant information

History

| Date of issue/Date of revision | : 29/06/2017 |
| Date of previous issue        | : 27/10/2015 |
| Version                       | : 4         |

Key to abbreviations

ADG = Australian Dangerous Goods
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
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>
<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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