
SAFETY DATA SHEET

pCMV-3Tag-3 Epitope Tagging Mammalian Expression Vector, Part Number 240197

Section 1. Identification

1.1 Product identifier

Product name: pCMV-3Tag-3 Epitope Tagging Mammalian Expression Vector, Part Number 240197
Part no. (chemical kit): 240197
Part no.: pCMV-3Tag-3a Vector 240197-51
pCMV-3Tag-3b Vector 240197-52
pCMV-3Tag-3c Vector 240197-53
Validation date: 9/30/2021

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

Material uses: Analytical reagent.
- pCMV-3Tag-3a Vector: 0.02 ml (20 µg 1 µg/µl)
- pCMV-3Tag-3b Vector: 0.02 ml (20 µg 1 µg/µl)
- pCMV-3Tag-3c Vector: 0.02 ml (20 µg 1 µg/µl)

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer: Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status: pCMV-3Tag-3a Vector
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

pCMV-3Tag-3b Vector
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

pCMV-3Tag-3c Vector
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

2.2 GHS label elements

Signal word:

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Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>pCMV-3Tag-3a Vector</th>
<th>pCMV-3Tag-3b Vector</th>
<th>pCMV-3Tag-3c Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard statements</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Precautionary statements

<table>
<thead>
<tr>
<th>Prevention</th>
<th>pCMV-3Tag-3a Vector</th>
<th>pCMV-3Tag-3b Vector</th>
<th>pCMV-3Tag-3c Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Response

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>pCMV-3Tag-3b Vector</th>
<th>pCMV-3Tag-3c Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Storage

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>pCMV-3Tag-3b Vector</th>
<th>pCMV-3Tag-3c Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Disposal

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>pCMV-3Tag-3b Vector</th>
<th>pCMV-3Tag-3c Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Supplemental label elements

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>pCMV-3Tag-3b Vector</th>
<th>pCMV-3Tag-3c Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td>None known.</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Section 3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>pCMV-3Tag-3b Vector</th>
<th>pCMV-3Tag-3c Vector</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tbody>
</table>
### Section 4. First aid measures

<table>
<thead>
<tr>
<th><strong>Inhalation</strong></th>
<th>pCMV-3Tag-3a Vector</th>
<th>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-3Tag-3b Vector</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></td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</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></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Skin contact</strong></th>
<th>pCMV-3Tag-3a Vector</th>
<th>Wash out mouth with water. 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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td>Wash out mouth with water. 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.</td>
<td></td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td>Wash out mouth with water. 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.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Ingestion</strong></th>
<th>pCMV-3Tag-3a Vector</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
</tbody>
</table>

### Potential acute health effects

**Eye contact**

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Skin contact**

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Ingestion**

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Over-exposure signs/symptoms

**Eye contact**

<table>
<thead>
<tr>
<th>pCMV-3Tag-3a Vector</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td>No specific data.</td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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Section 4. First aid measures

Inhalation:
- pCMV-3Tag-3a Vector: No specific data.
- pCMV-3Tag-3b Vector: No specific data.
- pCMV-3Tag-3c Vector: No specific data.

Skin contact:
- pCMV-3Tag-3a Vector: No specific data.
- pCMV-3Tag-3b Vector: No specific data.
- pCMV-3Tag-3c Vector: No specific data.

Ingestion:
- pCMV-3Tag-3a Vector: No specific data.
- pCMV-3Tag-3b Vector: No specific data.
- pCMV-3Tag-3c Vector: No specific data.

Protection of first-aiders:
- pCMV-3Tag-3a Vector: No action shall be taken involving any personal risk or without suitable training.
- pCMV-3Tag-3b Vector: No action shall be taken involving any personal risk or without suitable training.
- pCMV-3Tag-3c Vector: No action shall be taken involving any personal risk or without suitable training.

Notes to physician:
- pCMV-3Tag-3a Vector: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- pCMV-3Tag-3b Vector: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- pCMV-3Tag-3c Vector: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments:
- pCMV-3Tag-3a Vector: No specific treatment.
- pCMV-3Tag-3b Vector: No specific treatment.
- pCMV-3Tag-3c Vector: No specific treatment.

Section 5. Fire-fighting measures

5.1 Extinguishing media
- Suitable extinguishing media:
  - pCMV-3Tag-3a Vector: Use an extinguishing agent suitable for the surrounding fire.
  - pCMV-3Tag-3b Vector: Use an extinguishing agent suitable for the surrounding fire.
  - pCMV-3Tag-3c Vector: Use an extinguishing agent suitable for the surrounding fire.

- Unsuitable extinguishing media:
  - pCMV-3Tag-3a Vector: None known.
  - pCMV-3Tag-3b Vector: None known.
  - pCMV-3Tag-3c Vector: None known.

5.2 Special hazards arising from the substance or mixture
- Specific hazards arising from the chemical:
  - pCMV-3Tag-3a Vector: In a fire or if heated, a pressure increase will occur and the container may burst.
  - pCMV-3Tag-3b Vector: In a fire or if heated, a pressure increase will occur and the container may burst.
  - pCMV-3Tag-3c Vector: In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products:
  - pCMV-3Tag-3a Vector: No specific data.
  - pCMV-3Tag-3b Vector: No specific data.
  - pCMV-3Tag-3c Vector: No specific data.
Section 5. Fire-fighting measures

5.3 Advice for firefighters

Special protective actions for fire-fighters:
- pCMV-3Tag-3a 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.
- pCMV-3Tag-3b 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.
- pCMV-3Tag-3c 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.

Special protective equipment for fire-fighters:
- pCMV-3Tag-3a Vector: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- pCMV-3Tag-3b Vector: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- pCMV-3Tag-3c Vector: 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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
- pCMV-3Tag-3a 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 spilled material. Put on appropriate personal protective equipment.
- pCMV-3Tag-3b 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 spilled material. Put on appropriate personal protective equipment.
- pCMV-3Tag-3c 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 spilled material. Put on appropriate personal protective equipment.

For emergency responders:
- pCMV-3Tag-3a Vector: If specialized 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".
- pCMV-3Tag-3b Vector: If specialized 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".
- pCMV-3Tag-3c Vector: If specialized 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".

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Section 6. Accidental release measures

### 6.2 Environmental precautions

- **pCMV-3Tag-3a Vector**
  - Avoid dispersal of spilled 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).

- **pCMV-3Tag-3b Vector**
  - Avoid dispersal of spilled 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).

- **pCMV-3Tag-3c Vector**
  - Avoid dispersal of spilled 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).

### 6.3 Methods and materials for containment and cleaning up

#### Methods for cleaning up

- **pCMV-3Tag-3a 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.

- **pCMV-3Tag-3b 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.

- **pCMV-3Tag-3c 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.

Section 7. Handling and storage

#### 7.1 Precautions for safe handling

- **Protective measures**
  - **pCMV-3Tag-3a Vector**
    - Put on appropriate personal protective equipment (see Section 8).
  - **pCMV-3Tag-3b Vector**
    - Put on appropriate personal protective equipment (see Section 8).
  - **pCMV-3Tag-3c Vector**
    - Put on appropriate personal protective equipment (see Section 8).

- **Advice on general occupational hygiene**
  - **pCMV-3Tag-3a 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.
  - **pCMV-3Tag-3b 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.
## Section 7. Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Vector</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV-3Tag-3a Vector</td>
<td>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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td>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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td>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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
</tbody>
</table>

### 7.3 Specific end use(s)

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>pCMV-3Tag-3a Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3b Vector</td>
</tr>
<tr>
<td></td>
<td>Industrial applications, Professional applications.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3c Vector</td>
</tr>
<tr>
<td></td>
<td>Industrial applications, Professional applications.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industrial sector specific solutions</th>
<th>pCMV-3Tag-3a Vector</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3b Vector</td>
</tr>
<tr>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3c Vector</td>
</tr>
<tr>
<td></td>
<td>Not available.</td>
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</tbody>
</table>

**Date of issue:** 09/30/2021
Section 8. Exposure controls/personal protection

8.1 Control parameters

**Ingredient exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>None.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

**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**

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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>pCMV-3Tag-3a Vector</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pCMV-3Tag-3b Vector</td>
<td>Liquid.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3c Vector</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>pCMV-3Tag-3a Vector</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3b Vector</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3c Vector</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor</td>
<td>pCMV-3Tag-3a Vector</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3b Vector</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>pCMV-3Tag-3c Vector</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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## Section 9. Physical and chemical properties and safety characteristics

### Odor threshold
- pCMV-3Tag-3a Vector: Not available.
- pCMV-3Tag-3b Vector: Not available.
- pCMV-3Tag-3c Vector: Not available.

### pH
- pCMV-3Tag-3a Vector: Not available.
- pCMV-3Tag-3b Vector: 7
- pCMV-3Tag-3c Vector: 7

### Melting point/freezing point
- pCMV-3Tag-3a Vector: 0°C (32°F)
- pCMV-3Tag-3b Vector: 0°C (32°F)
- pCMV-3Tag-3c Vector: 0°C (32°F)

### Boiling point, initial boiling point, and boiling range
- pCMV-3Tag-3a Vector: 100°C (212°F)
- pCMV-3Tag-3b Vector: 100°C (212°F)
- pCMV-3Tag-3c Vector: 100°C (212°F)

### Flash point

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Closed cup</th>
<th></th>
<th>Open cup</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>°C</td>
<td>°F</td>
<td>Method</td>
<td>°C</td>
</tr>
<tr>
<td>pCMV-3Tag-3a Vector</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edetic acid</td>
<td>&gt;100</td>
<td>&gt;212</td>
<td>DIN 51758</td>
<td></td>
</tr>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edetic acid</td>
<td>&gt;100</td>
<td>&gt;212</td>
<td>DIN 51758</td>
<td></td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edetic acid</td>
<td>&gt;100</td>
<td>&gt;212</td>
<td>DIN 51758</td>
<td></td>
</tr>
</tbody>
</table>

### Evaporation rate
- pCMV-3Tag-3a Vector: Not available.
- pCMV-3Tag-3b Vector: Not available.
- pCMV-3Tag-3c Vector: Not available.

### Flammability
- pCMV-3Tag-3a Vector: Not applicable.
- pCMV-3Tag-3b Vector: Not applicable.
- pCMV-3Tag-3c Vector: Not applicable.

### Lower and upper explosion limit/flammability limit
- pCMV-3Tag-3a Vector: Not available.
- pCMV-3Tag-3b Vector: Not available.
- pCMV-3Tag-3c Vector: Not available.

### Vapor pressure

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapor Pressure at 20°C</th>
<th>Vapor pressure at 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td>pCMV-3Tag-3a Vector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>2-Amino-2- (hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>pCMV-3Tag-3b Vector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>2-Amino-2- (hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>pCMV-3Tag-3c Vector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>2-Amino-2- (hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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Section 9. Physical and chemical properties and safety characteristics

Relative vapor density: pCMV-3Tag-3a Vector Not available.  
                   pCMV-3Tag-3b Vector Not available.  
                   pCMV-3Tag-3c Vector Not available.  

Relative density: pCMV-3Tag-3a Vector Not available.  
                  pCMV-3Tag-3b Vector Not available.  
                  pCMV-3Tag-3c Vector Not available.  

Solubility: pCMV-3Tag-3a Vector Easily soluble in the following materials: cold water and hot water.  
           pCMV-3Tag-3b Vector Easily soluble in the following materials: cold water and hot water.  
           pCMV-3Tag-3c Vector Easily soluble in the following materials: cold water and hot water.  

Partition coefficient: n-octanol/water: pCMV-3Tag-3a Vector Not applicable.  
                             pCMV-3Tag-3b Vector Not applicable.  
                             pCMV-3Tag-3c Vector Not applicable.  

Auto-ignition temperature: Ingredient name | °C | °F | Method  
                           Edetic acid     | >400         | >752     | VDI 2263  
                           Edetic acid     | >400         | >752     | VDI 2263  
                           Edetic acid     | >400         | >752     | VDI 2263  

Decomposition temperature: pCMV-3Tag-3a Vector Not available.  
                           pCMV-3Tag-3b Vector Not available.  
                           pCMV-3Tag-3c Vector Not available.  

Viscosity: pCMV-3Tag-3a Vector Not available.  
           pCMV-3Tag-3b Vector Not available.  
           pCMV-3Tag-3c Vector Not available.  

Particle characteristics: pCMV-3Tag-3a Vector Not applicable.  
                          pCMV-3Tag-3b Vector Not applicable.  
                          pCMV-3Tag-3c Vector Not applicable.  

Section 10. Stability and reactivity

10.1 Reactivity: pCMV-3Tag-3a Vector No specific test data related to reactivity available for this product or its ingredients.  
                 pCMV-3Tag-3b Vector No specific test data related to reactivity available for this product or its ingredients.  
                 pCMV-3Tag-3c Vector No specific test data related to reactivity available for this product or its ingredients.  

10.2 Chemical stability: pCMV-3Tag-3a Vector The product is stable.  
                       pCMV-3Tag-3b Vector The product is stable.  
                       pCMV-3Tag-3c Vector The product is stable.  

10.3 Possibility of hazardous reactions: pCMV-3Tag-3a Vector Under normal conditions of storage and use, hazardous reactions will not occur.  
                                   pCMV-3Tag-3b Vector Under normal conditions of storage and use, hazardous reactions will not occur.  
                                   pCMV-3Tag-3c Vector Under normal conditions of storage and use, hazardous reactions will not occur.  

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## Section 10. Stability and reactivity

### 10.4 Conditions to avoid
- **pCMV-3Tag-3a Vector**: No specific data.
- **pCMV-3Tag-3b Vector**: No specific data.
- **pCMV-3Tag-3c Vector**: No specific data.

### 10.5 Incompatible materials
- **pCMV-3Tag-3a Vector**: May react or be incompatible with oxidizing materials.
- **pCMV-3Tag-3b Vector**: May react or be incompatible with oxidizing materials.
- **pCMV-3Tag-3c Vector**: May react or be incompatible with oxidizing materials.

### 10.6 Hazardous decomposition products
- **pCMV-3Tag-3a Vector**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **pCMV-3Tag-3b Vector**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **pCMV-3Tag-3c Vector**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity
Not available.

#### Irritation/Corrosion
Not available.

#### Sensitization
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 the likely routes of exposure
- **pCMV-3Tag-3a Vector**: Not available.
- **pCMV-3Tag-3b Vector**: Not available.
- **pCMV-3Tag-3c Vector**: Not available.

### Potential acute health effects

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Section 11. Toxicological information

Inhalation:
- pCMV-3Tag-3a Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3b Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3c Vector: No known significant effects or critical hazards.

Skin contact:
- pCMV-3Tag-3a Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3b Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3c Vector: No known significant effects or critical hazards.

Ingestion:
- pCMV-3Tag-3a Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3b Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3c Vector: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:
- pCMV-3Tag-3a Vector: No specific data.
- pCMV-3Tag-3b Vector: No specific data.
- pCMV-3Tag-3c Vector: No specific data.

Skin contact:
- pCMV-3Tag-3a Vector: No specific data.
- pCMV-3Tag-3b Vector: No specific data.
- pCMV-3Tag-3c Vector: No specific data.

Ingestion:
- pCMV-3Tag-3a Vector: No specific data.
- pCMV-3Tag-3b Vector: No specific data.
- pCMV-3Tag-3c Vector: No specific data.

Delayed and immediate effects and also 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-3Tag-3a Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3b Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3c Vector: No known significant effects or critical hazards.

Carcinogenicity:
- pCMV-3Tag-3a Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3b Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3c Vector: No known significant effects or critical hazards.

Mutagenicity:
- pCMV-3Tag-3a Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3b Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3c Vector: No known significant effects or critical hazards.

Reproductive toxicity:
- pCMV-3Tag-3a Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3b Vector: No known significant effects or critical hazards.
- pCMV-3Tag-3c Vector: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates
N/A

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Section 11. Toxicological information

Section 12. Ecological information

12.1 Toxicity
Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Soil/water partition coefficient ($K_{oc}$): Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods
Disposal methods:
The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA: Not regulated.

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.

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Section 14. Transport information

Transport in bulk according to IMO instruments: Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed
Clean Air Act Section 602 Class I Substances: Not listed
Clean Air Act Section 602 Class II Substances: Not listed
DEA List I Chemicals (Precursor Chemicals): Not listed
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ: Not applicable.

SARA 311/312

Classification:
- pCMV-3Tag-3a Vector: Not applicable.
- pCMV-3Tag-3b Vector: Not applicable.
- pCMV-3Tag-3c Vector: Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts: None of the components are listed.
New York: None of the components are listed.
New Jersey: None of the components are listed.
Pennsylvania: None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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Section 15. Regulatory information

UNEP Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list
Australia : All components are listed or exempted.
Canada : All components are listed or exempted.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : Japan inventory (CSCL): All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
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 active or exempted.
Viet Nam : All components are listed or exempted.

Section 16. Other information

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>

History

Date of issue : 09/30/2021
Date of previous issue : 05/23/2019
Version : 6

Key to abbreviations
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
UN = United Nations

Indicates information that has changed from previously issued version.

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