SAFETY DATA SHEET

VariFlex C-Terminal SET Vector Set, Part Number 240184

Section 1. Identification

Product identifier : VariFlex C-Terminal SET Vector Set, Part Number 240184
Part No. (Chemical Kit) : 240184
Part No. : pBEc-SET1 Vector 240184-51
pBEc-SET2 Vector 240184-52
pBEc-SET3 Vector 240184-53

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 : pBEc-SET1 Vector No signal word.
pBEc-SET2 Vector No signal word.
pBEc-SET3 Vector No signal word.

Hazard statements : pBEc-SET1 Vector No known significant effects or critical hazards.
pBEc-SET2 Vector No known significant effects or critical hazards.
pBEc-SET3 Vector No known significant effects or critical hazards.

Precautionary statements
Prevention : pBEc-SET1 Vector Not applicable.
pBEc-SET2 Vector Not applicable.
pBEc-SET3 Vector Not applicable.
Response : pBEc-SET1 Vector Not applicable.
pBEc-SET2 Vector Not applicable.
pBEc-SET3 Vector Not applicable.
Storage : pBEc-SET1 Vector Not applicable.
pBEc-SET2 Vector Not applicable.
pBEc-SET3 Vector Not applicable.
Disposal : pBEc-SET1 Vector Not applicable.
pBEc-SET2 Vector Not applicable.
pBEc-SET3 Vector Not applicable.
Supplemental label elements : pBEc-SET1 Vector Not applicable.
pBEc-SET2 Vector Not applicable.
pBEc-SET3 Vector Not applicable.

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Version : 2.01
1/13
Section 2. Hazard(s) identification

Other hazards which do not result in classification:

- **pBEc-SET1 Vector**: None known.
- **pBEc-SET2 Vector**: None known.
- **pBEc-SET3 Vector**: None known.

Section 3. Composition and ingredient information

Substance/mixture:

- **pBEc-SET1 Vector**: Mixture
- **pBEc-SET2 Vector**: Mixture
- **pBEc-SET3 Vector**: Mixture

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**:
  - **pBEc-SET1 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.
  - **pBEc-SET2 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.
  - **pBEc-SET3 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.

- **Inhalation**:
  - **pBEc-SET1 Vector**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
  - **pBEc-SET2 Vector**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
  - **pBEc-SET3 Vector**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

- **Skin contact**:
  - **pBEc-SET1 Vector**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
  - **pBEc-SET2 Vector**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
  - **pBEc-SET3 Vector**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

- **Ingestion**:
  - **pBEc-SET1 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.
  - **pBEc-SET2 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.
Section 4. First-aid measures

pBEc-SET3 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.

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

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>pBEc-SET1 Vector</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>pBEc-SET1 Vector</th>
<th>No known significant effects or critical hazards.</th>
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<tr>
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</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>pBEc-SET1 Vector</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No known significant effects or critical hazards.</td>
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<td>pBEc-SET2 Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Over-exposure signs/symptoms**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>pBEc-SET1 Vector</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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<tr>
<th>Inhalation</th>
<th>pBEc-SET1 Vector</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>pBEc-SET1 Vector</th>
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</thead>
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<tr>
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<td>pBEc-SET2 Vector</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No specific data.</td>
</tr>
</tbody>
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<tr>
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<td>pBEc-SET2 Vector</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Notes to physician</th>
<th>pBEc-SET1 Vector</th>
<th>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
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<td></td>
<td>pBEc-SET3 Vector</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific treatments</th>
<th>pBEc-SET1 Vector</th>
<th>No specific treatment.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protection of first-aiders</th>
<th>pBEc-SET1 Vector</th>
<th>No action shall be taken involving any personal risk or without suitable training.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

**See toxicological information (Section 11)**

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## Section 5. Fire-fighting measures

### Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>pBEc-SET1 Vector</th>
<th>Use an extinguishing agent suitable for the surrounding fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>pBEc-SET1 Vector</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>None known.</td>
</tr>
</tbody>
</table>

### Specific hazards arising from the chemical

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>pBEc-SET1 Vector</th>
<th>In a fire or if heated, a pressure increase will occur and the container may burst.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

### Hazardous thermal decomposition products

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>pBEc-SET1 Vector</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pBEc-SET2 Vector</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>pBEc-SET3 Vector</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

### Special protective actions for fire-fighters

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
<th>pBEc-SET1 Vector</th>
<th>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.</th>
</tr>
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<td></td>
<td>pBEc-SET2 Vector</td>
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</tr>
</tbody>
</table>

### Special protective equipment for fire-fighters

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>pBEc-SET1 Vector</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>
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<td></td>
<td>pBEc-SET2 Vector</td>
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</tr>
</tbody>
</table>

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>pBEc-SET1 Vector</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></td>
<td>pBEc-SET2 Vector</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>
Section 6. Accidental release measures

pBEc-SET3 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.

For emergency responders:
pBEc-SET1 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".
pBEc-SET2 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".
pBEc-SET3 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".

Environmental precautions:
pBEc-SET1 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).
pBEc-SET2 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).
pBEc-SET3 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).

Methods and material for containment and cleaning up

Methods for cleaning up:
pBEc-SET1 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.
pBEc-SET2 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.
pBEc-SET3 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

Precautions for safe handling

**Protective measures**

- **pBEc-SET1 Vector**: Put on appropriate personal protective equipment (see Section 8).
- **pBEc-SET2 Vector**: Put on appropriate personal protective equipment (see Section 8).
- **pBEc-SET3 Vector**: Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene**

- **pBEc-SET1 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.
- **pBEc-SET2 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.
- **pBEc-SET3 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.

**Conditions for safe storage, including any incompatibilities**

- **pBEc-SET1 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.
- **pBEc-SET2 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.
- **pBEc-SET3 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.
Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits
None.

Appropriate engineering controls

Environmental exposure controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state

pBEc-SET1 Vector Liquid.
pBEc-SET2 Vector Liquid.
pBEc-SET3 Vector Liquid.

Colour

pBEc-SET1 Vector Not available.
pBEc-SET2 Vector Not available.
pBEc-SET3 Vector Not available.

Odour

pBEc-SET1 Vector Not available.
pBEc-SET2 Vector Not available.
pBEc-SET3 Vector Not available.

Odour threshold

pBEc-SET1 Vector Not available.
pBEc-SET2 Vector Not available.
pBEc-SET3 Vector Not available.

pH

pBEc-SET1 Vector 7.5
pBEc-SET2 Vector 7.5
pBEc-SET3 Vector 7.5

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**Section 9. Physical and chemical properties**

- **Melting point**
  - p8Ec-SET1 Vector: 0°C (32°F)
  - p8Ec-SET2 Vector: 0°C (32°F)
  - p8Ec-SET3 Vector: 0°C (32°F)

- **Boiling point**
  - p8Ec-SET1 Vector: 100°C (212°F)
  - p8Ec-SET2 Vector: 100°C (212°F)
  - p8Ec-SET3 Vector: 100°C (212°F)

- **Flash point**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Evaporation rate**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Flammability (solid, gas)**
  - p8Ec-SET1 Vector: Not applicable.
  - p8Ec-SET2 Vector: Not applicable.
  - p8Ec-SET3 Vector: Not applicable.

- **Lower and upper explosive (flammable) limits**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Vapour pressure**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Vapour density**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Relative density**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Solubility**
  - p8Ec-SET1 Vector: Easily soluble in the following materials: cold water and hot water.
  - p8Ec-SET2 Vector: Easily soluble in the following materials: cold water and hot water.
  - p8Ec-SET3 Vector: Easily soluble in the following materials: cold water and hot water.

- **Partition coefficient: n-octanol/water**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Auto-ignition temperature**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Decomposition temperature**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

- **Viscosity**
  - p8Ec-SET1 Vector: Not available.
  - p8Ec-SET2 Vector: Not available.
  - p8Ec-SET3 Vector: Not available.

**Section 10. Stability and reactivity**

- **Reactivity**
  - p8Ec-SET1 Vector: No specific test data related to reactivity available for this product or its ingredients.
  - p8Ec-SET2 Vector: No specific test data related to reactivity available for this product or its ingredients.
  - p8Ec-SET3 Vector: No specific test data related to reactivity available for this product or its ingredients.

- **Chemical stability**
  - p8Ec-SET1 Vector: The product is stable.
  - p8Ec-SET2 Vector: The product is stable.
  - p8Ec-SET3 Vector: The product is stable.
Section 10. Stability and reactivity

### Possibility of hazardous reactions
- **pBEc-SET1 Vector**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **pBEc-SET2 Vector**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **pBEc-SET3 Vector**: Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid
- **pBEc-SET1 Vector**: No specific data.
- **pBEc-SET2 Vector**: No specific data.
- **pBEc-SET3 Vector**: No specific data.

### Incompatible materials
- **pBEc-SET1 Vector**: May react or be incompatible with oxidising materials.
- **pBEc-SET2 Vector**: May react or be incompatible with oxidising materials.
- **pBEc-SET3 Vector**: May react or be incompatible with oxidising materials.

### Hazardous decomposition products
- **pBEc-SET1 Vector**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **pBEc-SET2 Vector**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **pBEc-SET3 Vector**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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.
Section 11. Toxicological information

Information on the likely routes of exposure

<table>
<thead>
<tr>
<th>Vector</th>
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</thead>
<tbody>
<tr>
<td>pBEc-SET1 Vector</td>
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<tr>
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</tr>
<tr>
<td>pBEc-SET3 Vector</td>
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</table>

Potential acute health effects

Eye contact:

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
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Inhalation:

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Skin contact:

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Ingestion:

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Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:

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</tbody>
</table>

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

Not available.

General:

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Carcinogenicity:

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Mutagenicity:

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Teratogenicity:

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</table>
Section 11. Toxicological information

**Developmental effects**
- pBEc-SET1 Vector: No known significant effects or critical hazards.
- pBEc-SET2 Vector: No known significant effects or critical hazards.
- pBEc-SET3 Vector: No known significant effects or critical hazards.

**Fertility effects**
- pBEc-SET1 Vector: No known significant effects or critical hazards.
- pBEc-SET2 Vector: No known significant effects or critical hazards.
- pBEc-SET3 Vector: 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 (K_{oc})**
Not available.

**Other adverse effects**
Not available.

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

**Regulatory 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 73/78 and the IBC Code**
Not available.

Date of issue/Date of revision: 2015-09-29
Date of previous issue: 2013-04-18
Version: 2.01

11/13
Section 15. Regulatory information

**Standard Uniform Schedule of Medicine and Poisons**
Not regulated.

**Model Work Health and Safety Regulations - Scheduled Substances**
No listed substance

**Australia inventory (AICS)**: All components are listed or exempted.

**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 Inform Consent (PIC)**
  Not listed.

- **UNECE Aarhus Protocol on POPs and Heavy Metals**
  Not listed.

**International lists**

**National inventory**

- **Canada**: All components are listed or exempted.
- **China**: All components are listed or exempted.
- **Europe**: All components are listed or exempted.
- **Japan**: All components are listed or exempted.
- **Malaysia**: Not determined.
- **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.
- **United States**: All components are listed or exempted.

Section 16. Any other relevant information

**History**

- **Date of issue/Date of revision**: 29/09/2015
- **Date of previous issue**: 18/04/2013.
- **Version**: 2.01

**Key to abbreviations**

- **ADG** = Australian Dangerous Goods
- **ATE** = Acute Toxicity Estimate
- **BCF** = Bioconcentration Factor
- **GHS** = Globally Harmonized System of Classification and Labelling of Chemicals
- **IATA** = International Air Transport Association
- **IBC** = Intermediate Bulk Container
- **IMDG** = International Maritime Dangerous Goods
- **LogPow** = logarithm of the octanol/water partition coefficient
- **MARPOL 73/78** = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- **NOHSC** = National Occupational Health and Safety Commission
- **SUSMP** = Standard Uniform Schedule of Medicine and Poisons
- **UN** = United Nations

**Procedure used to derive the classification**

- **Date of issue/Date of revision**: 2015-09-29
- **Date of previous issue**: 2013-04-18
- **Version**: 2.01
Section 16. Any other relevant information

<table>
<thead>
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<th>Classification</th>
<th>Justification</th>
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</thead>
<tbody>
<tr>
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Notice to reader

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