

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	

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

Analytical reagent.

pBEc-SET1 Vector	0.02 ml
pBEc-SET2 Vector	0.02 ml
pBEc-SET3 Vector	0.02 ml

Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402
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Emergency telephone number (with hours of operation)	: CHEMTREC®: (61)-290372994
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Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No signal word. No signal word. No signal word.
Hazard statements	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	Not applicable. Not applicable. Not applicable.
Response	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	Not applicable. Not applicable. Not applicable.
Storage	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	Not applicable. Not applicable. Not applicable.
Disposal	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	Not applicable. Not applicable. Not applicable.
Supplemental label elements	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	Not applicable. Not applicable. Not applicable.

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

Section 4. First aid measures

pBEc-SET3 Vector

attention if symptoms occur.

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	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No specific data. No specific data. No specific data.
Inhalation	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No specific data. No specific data. No specific data.
Skin contact	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No specific data. No specific data. No specific data.
Ingestion	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No specific data. No specific data. No specific data.

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

Notes to physician	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: pBEc-SET1 Vector pBEc-SET2 Vector pBEc-SET3 Vector	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. 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	: pBEc-SET1 Vector	Use an extinguishing agent suitable for the surrounding fire.
	pBEc-SET2 Vector	Use an extinguishing agent suitable for the surrounding fire.
	pBEc-SET3 Vector	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: pBEc-SET1 Vector	None known.
	pBEc-SET2 Vector	None known.
	pBEc-SET3 Vector	None known.
Specific hazards arising from the chemical	: pBEc-SET1 Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pBEc-SET2 Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pBEc-SET3 Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: pBEc-SET1 Vector	No specific data.
	pBEc-SET2 Vector	No specific data.
	pBEc-SET3 Vector	No specific data.
Special protective actions for fire-fighters	: pBEc-SET1 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.
	pBEc-SET2 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.
	pBEc-SET3 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	: pBEc-SET1 Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pBEc-SET2 Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pBEc-SET3 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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: pBEc-SET1 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.
	pBEc-SET2 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.

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).
<u>Methods and material for containment and cleaning up</u>		
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** : 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

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

Section 9. Physical and chemical properties

Melting point	: pBEc-SET1 Vector	0°C (32°F)
	pBEc-SET2 Vector	0°C (32°F)
	pBEc-SET3 Vector	0°C (32°F)
Boiling point	: pBEc-SET1 Vector	100°C (212°F)
	pBEc-SET2 Vector	100°C (212°F)
	pBEc-SET3 Vector	100°C (212°F)
Flash point	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Evaporation rate	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Flammability (solid, gas)	: pBEc-SET1 Vector	Not applicable.
	pBEc-SET2 Vector	Not applicable.
	pBEc-SET3 Vector	Not applicable.
Lower and upper explosive (flammable) limits	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Vapour pressure	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Vapour density	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Relative density	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Solubility	: pBEc-SET1 Vector	Easily soluble in the following materials: cold water and hot water.
	pBEc-SET2 Vector	Easily soluble in the following materials: cold water and hot water.
	pBEc-SET3 Vector	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Auto-ignition temperature	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Decomposition temperature	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.
Viscosity	: pBEc-SET1 Vector	Not available.
	pBEc-SET2 Vector	Not available.
	pBEc-SET3 Vector	Not available.

Section 10. Stability and reactivity

Reactivity	: pBEc-SET1 Vector	No specific test data related to reactivity available for this product or its ingredients.
	pBEc-SET2 Vector	No specific test data related to reactivity available for this product or its ingredients.
	pBEc-SET3 Vector	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: pBEc-SET1 Vector	The product is stable.
	pBEc-SET2 Vector	The product is stable.
	pBEc-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 likely routes of exposure : pBEc-SET1 Vector Not available.
 pBEc-SET2 Vector Not available.
 pBEc-SET3 Vector Not available.

Potential acute health effects

Eye contact : 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.

Inhalation : 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.

Skin contact : 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.

Ingestion : 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : pBEc-SET1 Vector No specific data.
 pBEc-SET2 Vector No specific data.
 pBEc-SET3 Vector No specific data.

Inhalation : pBEc-SET1 Vector No specific data.
 pBEc-SET2 Vector No specific data.
 pBEc-SET3 Vector No specific data.

Skin contact : pBEc-SET1 Vector No specific data.
 pBEc-SET2 Vector No specific data.
 pBEc-SET3 Vector No specific data.

Ingestion : pBEc-SET1 Vector No specific data.
 pBEc-SET2 Vector No specific data.
 pBEc-SET3 Vector 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 : 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.

Carcinogenicity : 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.

Mutagenicity : 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.

Teratogenicity : 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.

Section 11. Toxicological information

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

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 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

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 Informed 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	: Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 31/03/2017

Date of previous issue : 29/09/2015.

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
 MARPOL = 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

Section 16. Any other relevant information

[Procedure used to derive the classification](#)

Classification	Justification
Not classified.	

References : Not available.

✔ Indicates information that has changed from previously issued version.

[Notice to reader](#)

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