# **SAFETY DATA SHEET**



pET 3a-d Vectors, Part Number 211521

### **Section 1. Identification**

Product identifier : pET 3a-d Vectors, Part Number 211521

Part no. (chemical kit) : 211521

 Part no.
 : pET-3a Vector
 211521-51

 pET-3b Vector
 211521-52

 pET-3c Vector
 211521-53

pET-3d Vector 211521-54

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

Material uses : Analytical reagent.

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 : pET-3a Vector No signal word.

pET-3b Vector No signal word. pET-3c Vector No signal word. pET-3d Vector No signal word.

**Hazard statements**: pET-3a Vector No known significant effects or critical hazards.

pET-3b Vector No known significant effects or critical hazards. No known significant effects or critical hazards. PET-3d Vector No known significant effects or critical hazards.

**Precautionary statements** 

Response

**Storage** 

**Prevention**: pET-3a Vector Not applicable.

pET-3b Vector Not applicable.
pET-3c Vector Not applicable.
pET-3d Vector Not applicable.
pET-3a Vector Not applicable.

pET-3b Vector Not applicable.
pET-3c Vector Not applicable.

pET-3d Vector Not applicable.

: pET-3a Vector Not applicable.
pET-3b Vector Not applicable.

pET-3b Vector Not applicable.
pET-3c Vector Not applicable.
pET-3d Vector Not applicable.

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# Section 2. Hazard(s) identification

**Disposal** : pET-3a Vector Not applicable. pET-3b Vector Not applicable.

pET-3c Vector Not applicable. pET-3d Vector Not applicable.

Supplemental label

elements

Additional warning : pET-3a Vector Not applicable.

phrases pET-3b Vector Not applicable.
pET-3c Vector Not applicable.

pET-3d Vector Not applicable.

Other hazards which do not : pET-3a Vector

result in classification pET-3b Vector None known.

pET-3c Vector None known. pET-3d Vector None known.

# Section 3. Composition and ingredient information

Substance/mixture : pET-3a Vector Mixture

pET-3b Vector Mixture
pET-3c Vector Mixture
pET-3d 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 measu
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**Eye contact**: pET-3a 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.

pET-3b Vector Immediately flush eyes with plenty of water,

None known.

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

pET-3c 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.

pET-3d 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 : pET-3a Vector Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

pET-3b Vector Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

pET-3c Vector Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

pET-3d Vector Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

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### Section 4. First aid measures

: pET-3a Vector **Skin contact** Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

pET-3b Vector Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur. pET-3c Vector

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

pET-3d Vector Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Ingestion : pÉT-3a Vector Wash out mouth with water. If material has been

pET-3b Vector

pET-3c Vector

pET-3d Vector

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. 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.

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. 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.

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

### Potential acute health effects

**Eye contact** : pET-3a Vector No known significant effects or critical hazards.

pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. No known significant effects or critical hazards. pET-3d Vector

No known significant effects or critical hazards. Inhalation : pET-3a Vector

> No known significant effects or critical hazards. pET-3b Vector No known significant effects or critical hazards. pET-3c Vector pET-3d Vector No known significant effects or critical hazards.

Skin contact No known significant effects or critical hazards. : pET-3a Vector

> No known significant effects or critical hazards. pET-3b Vector No known significant effects or critical hazards. pET-3c Vector pET-3d Vector No known significant effects or critical hazards.

Ingestion : pET-3a Vector No known significant effects or critical hazards.

pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. pET-3d Vector No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Inhalation** 

Eye contact : pET-3a Vector No specific data.

pET-3b Vector No specific data. pET-3c Vector No specific data. pET-3d Vector No specific data. : pET-3a Vector No specific data. pET-3b Vector No specific data.

pET-3c Vector No specific data. pET-3d Vector No specific data.

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# Section 4. First aid measures

Skin contact	: pET-3a Vector	No specific data.	
	pET-3b Vector	No specific data.	
	pET-3c Vector	No specific data.	
	pET-3d Vector	No specific data.	
Ingestion	: pET-3a Vector	No specific data.	
_	pET-3b Vector	No specific data.	
	pET-3c Vector	No specific data.	
	pET-3d Vector	No specific data.	

Indication of immediate med	<u>dical attention and special treat</u>	ment needed, if necessary
Notes to physician	: pET-3a Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pET-3b Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pET-3c Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pET-3d Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	<ul> <li>pET-3a Vector</li> <li>pET-3b Vector</li> <li>pET-3c Vector</li> <li>pET-3d Vector</li> </ul>	No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: pET-3a Vector	No action shall be taken involving any personal risk or without suitable training.
	pET-3b Vector	No action shall be taken involving any personal risk or without suitable training.
	pET-3c Vector	No action shall be taken involving any personal risk or without suitable training.
	pET-3d Vector	No action shall be taken involving any personal risk or without suitable training.

### See toxicological information (Section 11)

Section 5. Firefighting measures		
: pET-3a Vector	Use an extinguishing agent suitable for the surrounding fire.	
pET-3b Vector	Use an extinguishing agent suitable for the surrounding fire.	
pET-3c Vector	Use an extinguishing agent suitable for the surrounding fire.	
pET-3d Vector	Use an extinguishing agent suitable for the surrounding fire.	
: pET-3a Vector	None known.	
	None known.	
•	None known.	
pET-3d Vector	None known.	
: pET-3a Vector	In a fire or if heated, a pressure increase will occur and the container may burst.	
pET-3b Vector	In a fire or if heated, a pressure increase will occur and the container may burst.	
pET-3c Vector	In a fire or if heated, a pressure increase will occur and the container may burst.	
pET-3d Vector	In a fire or if heated, a pressure increase will occur and the container may burst.	
	: pET-3a Vector pET-3b Vector pET-3c Vector pET-3d Vector : pET-3a Vector pET-3b Vector pET-3c Vector pET-3d Vector pET-3d Vector pET-3d Vector	

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# Section 5. Firefighting measures

Hazardous thermal<br/>decomposition products: pET-3a Vector<br/>pET-3b Vector<br/>pET-3c VectorNo specific data.<br/>No specific data.<br/>No specific data.pET-3d VectorNo specific data.<br/>No specific data.

Special protective actions for fire-fighters

: pET-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.

pET-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.

pET-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.

pET-3d 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

personnel

: pET-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.

pET-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.

pET-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.

pET-3d 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 : pET-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 spilt material. Put on appropriate personal

protective equipment.

pET-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 spilt material. Put on appropriate personal

protective equipment.

pET-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 spilt material. Put on appropriate personal

protective equipment.

pET-3d 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

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### Section 6. Accidental release measures

For emergency responders: pET-3a Vector

pET-3b Vector

pET-3c Vector

pET-3d Vector

**Environmental precautions**: pET-3a Vector

pET-3b Vector

pET-3c Vector

pET-3d Vector

protective equipment.

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". 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". 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". 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".

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)

soil or air)

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soil or air).

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soil or air).

### Methods and material for containment and cleaning up

Methods for cleaning up : pET-3a Vector

pET-3b Vector

pET-3c Vector

pET-3d 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.

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### Section 6. Accidental release measures

disposal contractor.

# Section 7. Handling and storage

Precautions for safe handling

**Protective measures** : pET-3a Vector Put on appropriate personal protective equipment

(see Section 8).

pET-3b Vector Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment pET-3c Vector

(see Section 8).

Put on appropriate personal protective equipment pET-3d Vector

(see Section 8).

Advice on general occupational hygiene : pET-3a Vector

pET-3b Vector

pET-3c Vector

pET-3d Vector

Conditions for safe storage, : pET-3a Vector

including any incompatibilities

pET-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 for additional information on hygiene measures.

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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.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid

environmental contamination. See Section 10 for incompatible materials before handling or use.

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# Section 7. Handling and storage

pET-3c Vector

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid

environmental contamination. See Section 10 for incompatible materials before handling or use.

pET-3d Vector

# 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.

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# Section 8. Exposure controls and personal protection

**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

<u>Appearance</u>			
Physical state	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Liquid. Liquid. Liquid. Liquid.
Colour	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not available. Not available. Not available. Not available.
Odour	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not available. Not available. Not available. Not available.
Odour threshold	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not available. Not available. Not available. Not available.
pH	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	7.5 7.5 7.5 7.5
Melting point	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	0°C (32°F) 0°C (32°F) 0°C (32°F) 0°C (32°F)
Boiling point	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	100°C (212°F) 100°C (212°F) 100°C (212°F) 100°C (212°F)
Flash point	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not available. Not available. Not available. Not available.
Evaporation rate	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not available. Not available. Not available. Not available.
Flammability (solid, gas)	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not applicable. Not applicable. Not applicable. Not applicable.
Lower and upper explosive (flammable) limits	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not available. Not available. Not available. Not available.
Vapour pressure	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not available. Not available. Not available. Not available.
Vapour density	p p	ET-3a Vector ET-3b Vector ET-3c Vector ET-3d Vector	Not available. Not available. Not available. Not available.

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# Section 9. Physical and chemical properties

**Relative density** : pET-3a Vector Not available. pET-3b Vector Not available. pET-3c Vector Not available. Not available. pET-3d Vector Easily soluble in the following materials: cold water **Solubility** : pET-3a Vector and hot water. pET-3b Vector Easily soluble in the following materials: cold water and hot water. pET-3c Vector Easily soluble in the following materials: cold water and hot water. pET-3d Vector Easily soluble in the following materials: cold water and hot water. Partition coefficient: n-: pÉT-3a Vector Not applicable. octanol/water pET-3b Vector Not applicable. pET-3c Vector Not applicable. pET-3d Vector Not applicable. Not available. **Auto-ignition temperature** : pET-3a Vector Not available. pET-3b Vector Not available. pET-3c Vector Not available. pET-3d Vector Not available. **Decomposition temperature** : pET-3a Vector Not available. pET-3b Vector pET-3c Vector Not available. pET-3d Vector Not available. **Viscosity** pET-3a Vector Not available. pET-3b Vector Not available. pET-3c Vector Not available. pET-3d Vector Not available.

# Section 10. Stability and reactivity

Reactivity	: pET-3a Vector	No specific test data related to reactivity available for
	pET-3b Vector	this product or its ingredients.  No specific test data related to reactivity available for this product or its ingredients.
	pET-3c Vector	No specific test data related to reactivity available for this product or its ingredients.
	pET-3d Vector	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: pET-3a Vector	The product is stable.
	pET-3b Vector	The product is stable.
	pET-3c Vector	The product is stable.
	pET-3d Vector	The product is stable.
Possibility of hazardous reactions	: pET-3a Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pET-3b Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pET-3c Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pET-3d Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: pET-3a Vector	No specific data.
	pET-3b Vector	No specific data.
	pET-3c Vector	No specific data.
	pET-3d Vector	No specific data.

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### Section 10. Stability and reactivity

**Incompatible materials**: pET-3a Vector May react or be incompatible with oxidising materials.

pET-3b Vector May react or be incompatible with oxidising materials.
pET-3c Vector May react or be incompatible with oxidising materials.
pET-3d Vector May react or be incompatible with oxidising materials.

**Hazardous decomposition** 

products

: pET-3a Vector Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

pET-3b Vector Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

pET-3c Vector Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

pET-3d 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

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

Conclusion/Summary : Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

Information on likely routes: pET-3a VectorNot available.of exposurepET-3b VectorNot available.

pET-3b Vector Not available.
pET-3c Vector Not available.
pET-3d Vector Not available.

Potential acute health effects

**Eye contact**: pET-3a Vector No known significant effects or critical hazards.

pET-3b Vector
pET-3c Vector
pET-3d Vector
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

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### **Section 11. Toxicological information**

Inhalation : pET-3a Vector No known significant effects or critical hazards. pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. pET-3d Vector No known significant effects or critical hazards. Skin contact : pET-3a Vector No known significant effects or critical hazards. No known significant effects or critical hazards. pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. pET-3d Vector Ingestion No known significant effects or critical hazards. : pET-3a Vector No known significant effects or critical hazards. pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. pET-3d Vector

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : pET-3a Vector No specific data. pET-3b Vector No specific data. pET-3c Vector No specific data.

pET-3d Vector No specific data. : pET-3a Vector No specific data. pET-3b Vector No specific data. No specific data. pET-3c Vector No specific data. pET-3d Vector

Skin contact : pET-3a Vector No specific data.

pET-3d Vector

No specific data. pET-3b Vector No specific data. pET-3c Vector pET-3d Vector No specific data. : pET-3a Vector No specific data. pET-3b Vector No specific data. pET-3c Vector No specific data.

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

#### **Short term exposure**

**Potential immediate** Not available.

effects

Inhalation

Ingestion

: Not available. Potential delayed effects

Long term exposure

**Potential immediate** Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : pET-3a Vector No known significant effects or critical hazards.

pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. No known significant effects or critical hazards. pET-3d Vector No known significant effects or critical hazards. : pET-3a Vector

No specific data.

Carcinogenicity

pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. pET-3d Vector No known significant effects or critical hazards.

Mutagenicity : pET-3a Vector No known significant effects or critical hazards.

pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. pET-3d Vector No known significant effects or critical hazards.

Reproductive toxicity pET-3a Vector No known significant effects or critical hazards.

pET-3b Vector No known significant effects or critical hazards. pET-3c Vector No known significant effects or critical hazards. pET-3d Vector No known significant effects or critical hazards.

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# Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

N/A

# **Section 12. Ecological information**

#### **Toxicity**

Not available.

### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

### **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

**ADG / IMDG / IATA** 

: Not regulated as Dangerous Goods according to the ADG Code .

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not available. to IMO instruments

# Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

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# **Section 15. Regulatory information**

Not listed.

#### **Montreal Protocol**

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.

#### **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. Any other relevant information

**History** 

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**Key to abbreviations** : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road 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)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

### Procedure used to derive the classification

Classification	Justification	
Not classified.		

References : Not available.

✓ Indicates information that has changed from previously issued version.

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# Section 16. Any other relevant information

### **Notice to reader**

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