

SAFETY DATA SHEET



StrataClone Mammalian Expression C-Terminal FLAG Vector System, Part
Number 240230

Section 1. Identification

Product identifier : StrataClone Mammalian Expression C-Terminal FLAG Vector System, Part Number 240230

Part No. (Chemical Kit) : 240230

Part No. : StrataClone C-Terminal FLAG® Vector 240230-51
 Mix
 StrataClone Blunt Cloning Buffer 240207-54
 StrataClone CAM Blunt Control Insert 240224-59
 StrataClone SoloPack Competent Cells 200185-41
 pUC 18 DNA Control Plasmid 200231-42

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

Analytical reagent.

StrataClone C-Terminal FLAG® Vector Mix	0.021 ml (1 µl)
StrataClone Blunt Cloning Buffer	0.063 ml (63 µl)
StrataClone CAM Blunt Control Insert	0.01 ml (50 ng 5 ng/µl)
StrataClone SoloPack Competent Cells	1.05 ml (21 x 50 µl)
pUC 18 DNA Control Plasmid	0.01 ml (0.1 ng/µl)

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.

StrataClone SoloPack Competent Cells	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.1%
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GHS label elements

Signal word : StrataClone C-Terminal FLAG® Vector Mix No signal word.
 StrataClone Blunt Cloning Buffer No signal word.
 StrataClone CAM Blunt Control Insert No signal word.
 StrataClone SoloPack Competent Cells No signal word.
 pUC 18 DNA Control Plasmid No signal word.

Hazard statements : StrataClone C-Terminal FLAG® Vector Mix No known significant effects or critical hazards.
 StrataClone Blunt Cloning Buffer No known significant effects or critical hazards.
 StrataClone CAM Blunt Control Insert No known significant effects or critical hazards.
 StrataClone SoloPack Competent Cells No known significant effects or critical hazards.

Section 2. Hazard(s) identification

pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

Precautionary statements

Prevention	: StrataClone C-Terminal FLAG® Vector Mix	Not applicable.
	StrataClone Blunt Cloning Buffer	Not applicable.
	StrataClone CAM Blunt Control Insert	Not applicable.
	StrataClone SoloPack Competent Cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
Response	: StrataClone C-Terminal FLAG® Vector Mix	Not applicable.
	StrataClone Blunt Cloning Buffer	Not applicable.
	StrataClone CAM Blunt Control Insert	Not applicable.
	StrataClone SoloPack Competent Cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
Storage	: StrataClone C-Terminal FLAG® Vector Mix	Not applicable.
	StrataClone Blunt Cloning Buffer	Not applicable.
	StrataClone CAM Blunt Control Insert	Not applicable.
	StrataClone SoloPack Competent Cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
Disposal	: StrataClone C-Terminal FLAG® Vector Mix	Not applicable.
	StrataClone Blunt Cloning Buffer	Not applicable.
	StrataClone CAM Blunt Control Insert	Not applicable.
	StrataClone SoloPack Competent Cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
Supplemental label elements	: StrataClone C-Terminal FLAG® Vector Mix	Not applicable.
	StrataClone Blunt Cloning Buffer	Not applicable.
	StrataClone CAM Blunt Control Insert	Not applicable.
	StrataClone SoloPack Competent Cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
Other hazards which do not result in classification	: StrataClone C-Terminal FLAG® Vector Mix	None known.
	StrataClone Blunt Cloning Buffer	None known.
	StrataClone CAM Blunt Control Insert	None known.
	StrataClone SoloPack Competent Cells	None known.
	pUC 18 DNA Control Plasmid	None known.

Section 3. Composition and ingredient information

Substance/mixture	:	StrataClone C-Terminal FLAG® Vector Mix	Mixture
		StrataClone Blunt Cloning Buffer	Mixture
		StrataClone CAM Blunt Control Insert	Mixture
		StrataClone SoloPack Competent Cells	Mixture
		pUC 18 DNA Control Plasmid	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
StrataClone C-Terminal FLAG® Vector Mix Glycerol	≥10 - ≤30	56-81-5
StrataClone Blunt Cloning Buffer Polyethylene glycol	≥10 - ≤30	25322-68-3
StrataClone SoloPack Competent Cells Glycerol	≥10 - ≤30	56-81-5

There are no additional 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	:	StrataClone C-Terminal FLAG® Vector Mix	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.
		StrataClone Blunt Cloning Buffer	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.
		StrataClone CAM Blunt Control Insert	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.
		StrataClone SoloPack Competent Cells	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.
		pUC 18 DNA Control Plasmid	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	:	StrataClone C-Terminal FLAG® Vector Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		StrataClone Blunt Cloning Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		StrataClone CAM Blunt Control Insert	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		StrataClone SoloPack Competent Cells	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First aid measures

	pUC 18 DNA Control Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: StrataClone C-Terminal FLAG® Vector Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	StrataClone Blunt Cloning Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	StrataClone CAM Blunt Control Insert	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	StrataClone SoloPack Competent Cells	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pUC 18 DNA Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: StrataClone C-Terminal FLAG® Vector Mix	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.
	StrataClone Blunt Cloning Buffer	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.
	StrataClone CAM Blunt Control Insert	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.
	StrataClone SoloPack Competent Cells	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.
	pUC 18 DNA Control Plasmid	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

Section 4. First aid measures

Eye contact	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Inhalation	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Skin contact	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Ingestion	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	StrataClone C-Terminal FLAG® Vector Mix	No specific data.
		StrataClone Blunt Cloning Buffer	No specific data.
		StrataClone CAM Blunt Control Insert	No specific data.
		StrataClone SoloPack Competent Cells	No specific data.
		pUC 18 DNA Control Plasmid	No specific data.
Inhalation	:	StrataClone C-Terminal FLAG® Vector Mix	No specific data.
		StrataClone Blunt Cloning Buffer	No specific data.
		StrataClone CAM Blunt Control Insert	No specific data.
		StrataClone SoloPack Competent Cells	No specific data.
		pUC 18 DNA Control Plasmid	No specific data.

Section 4. First aid measures

Skin contact	: StrataClone C-Terminal FLAG® Vector Mix	No specific data.	
	StrataClone Blunt Cloning Buffer	No specific data.	
	StrataClone CAM Blunt Control Insert	No specific data.	
	StrataClone SoloPack Competent Cells	No specific data.	
	pUC 18 DNA Control Plasmid	No specific data.	
	Ingestion	: StrataClone C-Terminal FLAG® Vector Mix	No specific data.
		StrataClone Blunt Cloning Buffer	No specific data.
StrataClone CAM Blunt Control Insert		No specific data.	
StrataClone SoloPack Competent Cells		No specific data.	
pUC 18 DNA Control Plasmid		No specific data.	

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

Notes to physician	: StrataClone C-Terminal FLAG® Vector Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	StrataClone Blunt Cloning Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	StrataClone CAM Blunt Control Insert	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	StrataClone SoloPack Competent Cells	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pUC 18 DNA Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: StrataClone C-Terminal FLAG® Vector Mix	No specific treatment.
	StrataClone Blunt Cloning Buffer	No specific treatment.
	StrataClone CAM Blunt Control Insert	No specific treatment.
	StrataClone SoloPack Competent Cells	No specific treatment.
	pUC 18 DNA Control Plasmid	No specific treatment.
	Protection of first-aiders	: StrataClone C-Terminal FLAG® Vector Mix
StrataClone Blunt Cloning Buffer		No action shall be taken involving any personal risk or without suitable training.
StrataClone CAM Blunt Control Insert		No action shall be taken involving any personal risk or without suitable training.
StrataClone SoloPack Competent Cells		No action shall be taken involving any personal risk or without suitable training.
pUC 18 DNA Control Plasmid		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	: StrataClone C-Terminal FLAG® Vector Mix	Use an extinguishing agent suitable for the surrounding fire.
	StrataClone Blunt Cloning Buffer	Use an extinguishing agent suitable for the surrounding fire.
	StrataClone CAM Blunt Control Insert	Use an extinguishing agent suitable for the surrounding fire.
	StrataClone SoloPack Competent Cells	Use an extinguishing agent suitable for the surrounding fire.
	pUC 18 DNA Control Plasmid	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media	: StrataClone C-Terminal FLAG® Vector Mix	None known.
	StrataClone Blunt Cloning Buffer	None known.
	StrataClone CAM Blunt Control Insert	None known.
	StrataClone SoloPack Competent Cells	None known.
	pUC 18 DNA Control Plasmid	None known.

Specific hazards arising from the chemical	: StrataClone C-Terminal FLAG® Vector Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	StrataClone Blunt Cloning Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	StrataClone CAM Blunt Control Insert	In a fire or if heated, a pressure increase will occur and the container may burst.
	StrataClone SoloPack Competent Cells	In a fire or if heated, a pressure increase will occur and the container may burst.
	pUC 18 DNA Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products	: StrataClone C-Terminal FLAG® Vector Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	StrataClone Blunt Cloning Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	StrataClone CAM Blunt Control Insert StrataClone SoloPack Competent Cells	No specific data.
	pUC 18 DNA Control Plasmid	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
		No specific data.

Special protective actions for fire-fighters	: StrataClone C-Terminal FLAG® Vector Mix	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.
	StrataClone Blunt Cloning Buffer	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.
	StrataClone CAM Blunt Control Insert	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

Section 5. Firefighting measures

		action shall be taken involving any personal risk or without suitable training.
	StrataClone SoloPack Competent Cells	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.
	pUC 18 DNA Control Plasmid	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	: StrataClone C-Terminal FLAG® Vector Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	StrataClone Blunt Cloning Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	StrataClone CAM Blunt Control Insert	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	StrataClone SoloPack Competent Cells	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pUC 18 DNA Control Plasmid	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	: StrataClone C-Terminal FLAG® Vector Mix	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.
	StrataClone Blunt Cloning Buffer	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.
	StrataClone CAM Blunt Control Insert	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	StrataClone SoloPack Competent Cells	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.
	pUC 18 DNA Control Plasmid	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

Section 6. Accidental release measures

For emergency responders	: StrataClone C-Terminal FLAG® Vector Mix	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".
	StrataClone Blunt Cloning Buffer	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".
	StrataClone CAM Blunt Control Insert	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	StrataClone SoloPack Competent Cells	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".
	pUC 18 DNA Control Plasmid	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	: StrataClone C-Terminal FLAG® Vector Mix	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).
	StrataClone Blunt Cloning Buffer	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).
	StrataClone CAM Blunt Control Insert	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).
	StrataClone SoloPack Competent Cells	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).
	pUC 18 DNA Control Plasmid	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	: StrataClone C-Terminal FLAG® Vector Mix	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.
	StrataClone Blunt Cloning Buffer	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.
	StrataClone CAM Blunt	Stop leak if without risk. Move containers from spill

Section 6. Accidental release measures

Control Insert	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.
StrataClone SoloPack Competent Cells	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.
pUC 18 DNA Control Plasmid	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

: StrataClone C-Terminal FLAG® Vector Mix	Put on appropriate personal protective equipment (see Section 8).
StrataClone Blunt Cloning Buffer	Put on appropriate personal protective equipment (see Section 8).
StrataClone CAM Blunt Control Insert	Put on appropriate personal protective equipment (see Section 8).
StrataClone SoloPack Competent Cells	Put on appropriate personal protective equipment (see Section 8).
pUC 18 DNA Control Plasmid	Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: StrataClone C-Terminal FLAG® Vector Mix	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.
StrataClone Blunt Cloning Buffer	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.
StrataClone CAM Blunt Control Insert	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.
StrataClone SoloPack Competent Cells	Potentially biohazardous material. 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.
pUC 18 DNA Control Plasmid	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

Section 7. Handling and storage

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

StrataClone C-Terminal FLAG® Vector Mix

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.

StrataClone Blunt Cloning Buffer

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.

StrataClone CAM Blunt Control Insert

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.

StrataClone SoloPack Competent Cells

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.

pUC 18 DNA Control Plasmid

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

Ingredient name	Exposure limits
StrataClone C-Terminal FLAG® Vector Mix Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
StrataClone Blunt Cloning Buffer Polyethylene glycol	TRGS900 AGW (Germany, 6/2016). PEAK: 8000 mg/m ³ 15 minutes. Form: Inhalable fraction TWA: 1000 mg/m ³ 8 hours. Form: Inhalable fraction
StrataClone SoloPack Competent Cells Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.

- 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** : Handle as biohazard material (Biosafety level 1). 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	: StrataClone C-Terminal FLAG® Vector Mix	Liquid.	
	StrataClone Blunt Cloning Buffer	Liquid.	
	StrataClone CAM Blunt Control Insert	Liquid.	
	StrataClone SoloPack	Liquid.	
	Competent Cells		
	pUC 18 DNA Control Plasmid	Liquid.	
	Colour	: StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
StrataClone CAM Blunt Control Insert		Not available.	
StrataClone SoloPack		Not available.	
Competent Cells			
pUC 18 DNA Control Plasmid		Not available.	
Odour		: StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
	StrataClone CAM Blunt Control Insert	Not available.	
	StrataClone SoloPack	Not available.	
	Competent Cells		
	pUC 18 DNA Control Plasmid	Not available.	
	Odour threshold	: StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
StrataClone CAM Blunt Control Insert		Not available.	
StrataClone SoloPack		Not available.	
Competent Cells			
pUC 18 DNA Control Plasmid		Not available.	
pH		: StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
	StrataClone CAM Blunt Control Insert	7.5	
	StrataClone SoloPack	Not available.	
	Competent Cells		
	pUC 18 DNA Control Plasmid	7.5	
	Melting point	: StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
StrataClone CAM Blunt Control Insert		0°C (32°F)	
StrataClone SoloPack		Not available.	
Competent Cells			
pUC 18 DNA Control Plasmid		0°C (32°F)	

Section 9. Physical and chemical properties

Boiling point	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	100°C (212°F)
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	100°C (212°F)
Flash point	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
Evaporation rate	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
Flammability (solid, gas)	:	StrataClone C-Terminal FLAG® Vector Mix	Not applicable.
		StrataClone Blunt Cloning Buffer	Not applicable.
		StrataClone CAM Blunt Control Insert	Not applicable.
		StrataClone SoloPack Competent Cells	Not applicable.
		pUC 18 DNA Control Plasmid	Not applicable.
Lower and upper explosive (flammable) limits	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
Vapour pressure	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
Vapour density	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.

Section 9. Physical and chemical properties

		pUC 18 DNA Control Plasmid	Not available.
Relative density	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
Solubility	:	StrataClone C-Terminal FLAG® Vector Mix	Soluble in the following materials: cold water and hot water.
		StrataClone Blunt Cloning Buffer	Soluble in the following materials: cold water and hot water.
		StrataClone CAM Blunt Control Insert	Easily soluble in the following materials: cold water and hot water.
		StrataClone SoloPack Competent Cells	Soluble in the following materials: cold water and hot water.
		pUC 18 DNA Control Plasmid	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
Auto-ignition temperature	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
Decomposition temperature	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
Viscosity	:	StrataClone C-Terminal FLAG® Vector Mix	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone CAM Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.

Section 10. Stability and reactivity

Reactivity	: StrataClone C-Terminal FLAG® Vector Mix StrataClone Blunt Cloning Buffer StrataClone CAM Blunt Control Insert StrataClone SoloPack Competent Cells pUC 18 DNA Control Plasmid	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: StrataClone C-Terminal FLAG® Vector Mix StrataClone Blunt Cloning Buffer StrataClone CAM Blunt Control Insert StrataClone SoloPack Competent Cells pUC 18 DNA Control Plasmid	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
Possibility of hazardous reactions	: StrataClone C-Terminal FLAG® Vector Mix StrataClone Blunt Cloning Buffer StrataClone CAM Blunt Control Insert StrataClone SoloPack Competent Cells pUC 18 DNA Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: StrataClone C-Terminal FLAG® Vector Mix StrataClone Blunt Cloning Buffer StrataClone CAM Blunt Control Insert StrataClone SoloPack Competent Cells pUC 18 DNA Control Plasmid	No specific data. No specific data. No specific data. No specific data. No specific data.
Incompatible materials	: StrataClone C-Terminal FLAG® Vector Mix StrataClone Blunt Cloning Buffer StrataClone CAM Blunt Control Insert StrataClone SoloPack Competent Cells pUC 18 DNA Control Plasmid	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
Hazardous decomposition products	: StrataClone C-Terminal FLAG® Vector Mix StrataClone Blunt Cloning Buffer StrataClone CAM Blunt Control Insert	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 10. Stability and reactivity

StrataClone SoloPack
Competent Cells

produced.
Under normal conditions of storage and use,
hazardous decomposition products should not be
produced.

pUC 18 DNA Control Plasmid

Under normal conditions of storage and use,
hazardous decomposition products should not be
produced.

Section 11. Toxicological information

[Information on toxicological effects](#)

[Acute toxicity](#)

Product/ingredient name	Result	Species	Dose	Exposure
StrataClone C-Terminal FLAG® Vector Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
StrataClone SoloPack Competent Cells Glycerol	LD50 Oral	Rat	12600 mg/kg	-

[Irritation/Corrosion](#)

Product/ingredient name	Result	Species	Score	Exposure	Observation
StrataClone C-Terminal FLAG® Vector Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
StrataClone Blunt Cloning Buffer Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
StrataClone SoloPack Competent Cells Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

[Sensitisation](#)

Not available.

[Mutagenicity](#)

Not available.

[Carcinogenicity](#)

Not available.

[Reproductive toxicity](#)

Not available.

[Teratogenicity](#)

Section 11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	StrataClone C-Terminal FLAG® Vector Mix	Not available.
	StrataClone Blunt Cloning Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	StrataClone CAM Blunt Control Insert	Not available.
	StrataClone SoloPack Competent Cells	Routes of entry anticipated: Oral, Dermal, Inhalation.
	pUC 18 DNA Control Plasmid	Not available.

Potential acute health effects

Eye contact	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
	StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Inhalation	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
	StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Skin contact	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
	StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Ingestion	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
	StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: StrataClone C-Terminal FLAG® Vector Mix	No specific data.
	StrataClone Blunt Cloning Buffer	No specific data.
	StrataClone CAM Blunt Control Insert	No specific data.
	StrataClone SoloPack Competent Cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
Inhalation	: StrataClone C-Terminal FLAG® Vector Mix	No specific data.
	StrataClone Blunt Cloning Buffer	No specific data.
	StrataClone CAM Blunt Control Insert	No specific data.
	StrataClone SoloPack Competent Cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
Skin contact	: StrataClone C-Terminal FLAG® Vector Mix	No specific data.
	StrataClone Blunt Cloning Buffer	No specific data.
	StrataClone CAM Blunt Control Insert	No specific data.
	StrataClone SoloPack Competent Cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
Ingestion	: StrataClone C-Terminal FLAG® Vector Mix	No specific data.
	StrataClone Blunt Cloning Buffer	No specific data.
	StrataClone CAM Blunt Control Insert	No specific data.
	StrataClone SoloPack Competent Cells	No specific data.
	pUC 18 DNA Control Plasmid	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	: StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
	StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.

Section 11. Toxicological information

Carcinogenicity	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Mutagenicity	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Teratogenicity	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Developmental effects	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Fertility effects	:	StrataClone C-Terminal FLAG® Vector Mix	No known significant effects or critical hazards.
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone CAM Blunt Control Insert	No known significant effects or critical hazards.
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.
		pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
StrataClone C-Terminal FLAG® Vector Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
StrataClone Blunt Cloning Buffer Polyethylene glycol	Acute LC50 >1000000 µg/l Fresh water	Fish - Salmo salar - Parr	96 hours
StrataClone SoloPack Competent Cells Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
StrataClone C-Terminal FLAG® Vector Mix Glycerol	-1.76	-	low
StrataClone Blunt Cloning Buffer Polyethylene glycol	-	3.2	low
StrataClone SoloPack Competent Cells Glycerol	-1.76	-	low

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

5

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): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
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 : 27/03/2017

Date of previous issue : 31/08/2016.

Version : 5

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

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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