

SAFETY DATA SHEET



StrataClone Ultra Blunt PCR Cloning Kit, Part Number 240218

Section 1. Identification

Product identifier	:	StrataClone Ultra Blunt PCR Cloning Kit, Part Number 240218														
Part No. (Chemical Kit)	:	240218														
Part No.	:	<table border="0"> <tr> <td>StrataClone Blunt Vector Mix amp/kan</td> <td>240207-51</td> </tr> <tr> <td>StrataClone Blunt Cloning Buffer</td> <td>240207-54</td> </tr> <tr> <td>StrataClone Blunt Control Insert</td> <td>240207-53</td> </tr> <tr> <td>StrataClone SoloPack Competent Cells</td> <td>200185-41</td> </tr> <tr> <td>pUC 18 DNA Control Plasmid</td> <td>200231-42</td> </tr> <tr> <td>PfuUltra II Fusion HS DNA Polymerase</td> <td>600670-51</td> </tr> <tr> <td>10X PfuUltra II Reaction Buffer</td> <td>600670-52</td> </tr> </table>	StrataClone Blunt Vector Mix amp/kan	240207-51	StrataClone Blunt Cloning Buffer	240207-54	StrataClone Blunt Control Insert	240207-53	StrataClone SoloPack Competent Cells	200185-41	pUC 18 DNA Control Plasmid	200231-42	PfuUltra II Fusion HS DNA Polymerase	600670-51	10X PfuUltra II Reaction Buffer	600670-52
StrataClone Blunt Vector Mix amp/kan	240207-51															
StrataClone Blunt Cloning Buffer	240207-54															
StrataClone Blunt Control Insert	240207-53															
StrataClone SoloPack Competent Cells	200185-41															
pUC 18 DNA Control Plasmid	200231-42															
PfuUltra II Fusion HS DNA Polymerase	600670-51															
10X PfuUltra II Reaction Buffer	600670-52															

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

Analytical reagent.

StrataClone Blunt Vector Mix amp/kan	21 x 0.001 ml
StrataClone Blunt Cloning Buffer	0.063 ml
StrataClone Blunt Control Insert	1 ml (50 ng 5 ng/μl)
StrataClone SoloPack Competent Cells	21 x 0.05 ml
pUC 18 DNA Control Plasmid	0.01 ml (0.1 ng/μl)
PfuUltra II Fusion HS DNA Polymerase	0.04 ml (40 reactions)
10X PfuUltra II Reaction Buffer	1 ml

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

10X PfuUltra II Reaction Buffer
H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

StrataClone Blunt Vector Mix amp/kan	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
StrataClone Blunt Cloning Buffer	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
StrataClone SoloPack Competent Cells	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
PfuUltra II Fusion HS DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
10X PfuUltra II Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%

Section 2. Hazard(s) identification

10X PfuUltra II Reaction Buffer Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.4%

GHS label elements

Hazard pictograms

: 10X PfuUltra II Reaction Buffer



Signal word

: StrataClone Blunt Vector Mix amp/kan No signal word.
 StrataClone Blunt Cloning Buffer No signal word.
 StrataClone Blunt Control Insert No signal word.
 StrataClone SoloPack Competent Cells No signal word.
 pUC 18 DNA Control Plasmid No signal word.
 PfuUltra II Fusion HS DNA Polymerase No signal word.
 10X PfuUltra II Reaction Buffer WARNING

Hazard statements

: StrataClone Blunt Vector Mix amp/kan No known significant effects or critical hazards.
 StrataClone Blunt Cloning Buffer No known significant effects or critical hazards.
 StrataClone 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.
 PfuUltra II Fusion HS DNA Polymerase No known significant effects or critical hazards.
 10X PfuUltra II Reaction Buffer H319 - Causes serious eye irritation.

Precautionary statements

Prevention

: StrataClone Blunt Vector Mix amp/kan Not applicable.
 StrataClone Blunt Cloning Buffer Not applicable.
 StrataClone Blunt Control Insert Not applicable.
 StrataClone SoloPack Competent Cells Not applicable.
 pUC 18 DNA Control Plasmid Not applicable.
 PfuUltra II Fusion HS DNA Polymerase Not applicable.
 10X PfuUltra II Reaction Buffer P280 - Wear eye or face protection.
 P264 - Wash hands thoroughly after handling.

Response

: StrataClone Blunt Vector Mix amp/kan Not applicable.
 StrataClone Blunt Cloning Buffer Not applicable.
 StrataClone Blunt Control Insert Not applicable.
 StrataClone SoloPack Competent Cells Not applicable.
 pUC 18 DNA Control Plasmid Not applicable.
 PfuUltra II Fusion HS DNA Polymerase Not applicable.

Section 2. Hazard(s) identification

	10X PfuUltra II Reaction Buffer	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	: StrataClone Blunt Vector Mix amp/kan	Not applicable.
	StrataClone Blunt Cloning Buffer	Not applicable.
	StrataClone Blunt Control Insert	Not applicable.
	StrataClone SoloPack Competent Cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
	PfuUltra II Fusion HS DNA Polymerase	Not applicable.
	10X PfuUltra II Reaction Buffer	Not applicable.
Disposal	: StrataClone Blunt Vector Mix amp/kan	Not applicable.
	StrataClone Blunt Cloning Buffer	Not applicable.
	StrataClone Blunt Control Insert	Not applicable.
	StrataClone SoloPack Competent Cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
	PfuUltra II Fusion HS DNA Polymerase	Not applicable.
	10X PfuUltra II Reaction Buffer	Not applicable.
Supplemental label elements	: StrataClone Blunt Vector Mix amp/kan	Not applicable.
	StrataClone Blunt Cloning Buffer	Not applicable.
	StrataClone Blunt Control Insert	Not applicable.
	StrataClone SoloPack Competent Cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
	PfuUltra II Fusion HS DNA Polymerase	Not applicable.
	10X PfuUltra II Reaction Buffer	Not applicable.
Other hazards which do not result in classification	: StrataClone Blunt Vector Mix amp/kan	None known.
	StrataClone Blunt Cloning Buffer	None known.
	StrataClone Blunt Control Insert	None known.
	StrataClone SoloPack Competent Cells	None known.
	pUC 18 DNA Control Plasmid	None known.
	PfuUltra II Fusion HS DNA Polymerase	None known.
	10X PfuUltra II Reaction Buffer	None known.

Section 3. Composition and ingredient information

Substance/mixture	:	StrataClone Blunt Vector Mix	Mixture
		amp/kan	
		StrataClone Blunt Cloning Buffer	Mixture
		StrataClone Blunt Control Insert	Mixture
		StrataClone SoloPack Competent Cells	Mixture
		pUC 18 DNA Control Plasmid	Mixture
		PfuUltra II Fusion HS DNA Polymerase	Mixture
		10X PfuUltra II Reaction Buffer	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
StrataClone Blunt Vector Mix amp/kan 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
PfuUltra II Fusion HS DNA Polymerase Glycerol	≥30 - ≤60	56-81-5
10X PfuUltra II Reaction Buffer Polyoxyethylene octyl phenyl ether	<2.5	9002-93-1

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 Blunt Vector Mix amp/kan	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 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.
		PfuUltra II Fusion HS DNA Polymerase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Section 4. First aid measures

		Check for and remove any contact lenses. Get medical attention if irritation occurs.
	10X PfuUltra II Reaction Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: StrataClone Blunt Vector Mix amp/kan	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 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.
	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.
	PfuUltra II Fusion HS DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10X PfuUltra II Reaction Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: StrataClone Blunt Vector Mix amp/kan	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 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.
	PfuUltra II Fusion HS DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10X PfuUltra II Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion

:  StrataClone Blunt Vector Mix amp/kan	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 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.
PfuUltra II Fusion HS DNA Polymerase	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.
10X PfuUltra II Reaction Buffer	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

Eye contact	:	StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.		
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.		
		StrataClone 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.		
		PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.		
		10X PfuUltra II Reaction Buffer	Causes serious eye irritation.		
		Inhalation	:	StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
				StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
				StrataClone 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.				
PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.				
10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.				
Skin contact	:			StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
				StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
				StrataClone 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.		
		PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.		
		10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.		
		Ingestion	:	StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
				StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
				StrataClone 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.				
PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.				
10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.				

Over-exposure signs/symptoms

Eye contact	:	StrataClone Blunt Vector Mix amp/kan	No specific data.
		StrataClone Blunt Cloning Buffer	No specific data.
		StrataClone 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

	PfuUltra II Fusion HS DNA Polymerase	No specific data.
	10X PfuUltra II Reaction Buffer	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: StrataClone Blunt Vector Mix amp/kan	No specific data.
	StrataClone Blunt Cloning Buffer	No specific data.
	StrataClone Blunt Control Insert	No specific data.
	StrataClone SoloPack Competent Cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
	PfuUltra II Fusion HS DNA Polymerase	No specific data.
	10X PfuUltra II Reaction Buffer	No specific data.
Skin contact	: StrataClone Blunt Vector Mix amp/kan	No specific data.
	StrataClone Blunt Cloning Buffer	No specific data.
	StrataClone Blunt Control Insert	No specific data.
	StrataClone SoloPack Competent Cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
	PfuUltra II Fusion HS DNA Polymerase	No specific data.
	10X PfuUltra II Reaction Buffer	No specific data.
Ingestion	: StrataClone Blunt Vector Mix amp/kan	No specific data.
	StrataClone Blunt Cloning Buffer	No specific data.
	StrataClone Blunt Control Insert	No specific data.
	StrataClone SoloPack Competent Cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
	PfuUltra II Fusion HS DNA Polymerase	No specific data.
	10X PfuUltra II Reaction Buffer	No specific data.

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

Notes to physician	: StrataClone Blunt Vector Mix amp/kan	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 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

Section 4. First aid measures

	PfuUltra II Fusion HS DNA Polymerase	ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	10X PfuUltra II Reaction Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: StrataClone Blunt Vector Mix amp/kan	No specific treatment.
	StrataClone Blunt Cloning Buffer	No specific treatment.
	StrataClone Blunt Control Insert	No specific treatment.
	StrataClone SoloPack Competent Cells	No specific treatment.
	pUC 18 DNA Control Plasmid	No specific treatment.
	PfuUltra II Fusion HS DNA Polymerase	No specific treatment.
	10X PfuUltra II Reaction Buffer	No specific treatment.
Protection of first-aiders	: StrataClone Blunt Vector Mix amp/kan	No action shall be taken involving any personal risk or without suitable training.
	StrataClone Blunt Cloning Buffer	No action shall be taken involving any personal risk or without suitable training.
	StrataClone 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.
	PfuUltra II Fusion HS DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
	10X PfuUltra II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: StrataClone Blunt Vector Mix amp/kan	Use an extinguishing agent suitable for the surrounding fire.
	StrataClone Blunt Cloning Buffer	Use an extinguishing agent suitable for the surrounding fire.
	StrataClone 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.
	PfuUltra II Fusion HS DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	10X PfuUltra II Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Firefighting measures

Unsuitable extinguishing media	: StrataClone Blunt Vector Mix amp/kan StrataClone Blunt Cloning Buffer StrataClone Blunt Control Insert StrataClone SoloPack Competent Cells pUC 18 DNA Control Plasmid PfuUltra II Fusion HS DNA Polymerase 10X PfuUltra II Reaction Buffer	None known. None known. None known. None known. None known. None known. None known.
Specific hazards arising from the chemical	: StrataClone Blunt Vector Mix amp/kan StrataClone Blunt Cloning Buffer StrataClone Blunt Control Insert StrataClone SoloPack Competent Cells pUC 18 DNA Control Plasmid PfuUltra II Fusion HS DNA Polymerase 10X PfuUltra II Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: StrataClone Blunt Vector Mix amp/kan StrataClone Blunt Cloning Buffer StrataClone Blunt Control Insert StrataClone SoloPack Competent Cells pUC 18 DNA Control Plasmid PfuUltra II Fusion HS DNA Polymerase 10X PfuUltra II Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Section 5. Firefighting measures

Special protective actions for fire-fighters	: StrataClone Blunt Vector Mix amp/kan	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 Blunt Control Insert	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 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.
	PfuUltra II Fusion HS DNA Polymerase	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.
	10X PfuUltra II Reaction 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.
Special protective equipment for fire-fighters	: StrataClone Blunt Vector Mix amp/kan	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 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.
	PfuUltra II Fusion HS DNA Polymerase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10X PfuUltra II Reaction Buffer	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 Blunt Vector Mix amp/kan	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 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 protective equipment.
	PfuUltra II Fusion HS DNA Polymerase	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.
	10X PfuUltra II Reaction 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: StrataClone Blunt Vector Mix amp/kan	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 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

Section 6. Accidental release measures

	PfuUltra II Fusion HS DNA Polymerase	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".
	10X PfuUltra II Reaction 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".
Environmental precautions	<p>☒ StrataClone Blunt Vector Mix amp/kan</p> <p>StrataClone Blunt Cloning Buffer</p> <p>StrataClone Blunt Control Insert</p> <p>StrataClone SoloPack Competent Cells</p> <p>pUC 18 DNA Control Plasmid</p> <p>PfuUltra II Fusion HS DNA Polymerase</p> <p>10X PfuUltra II Reaction Buffer</p>	<p>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).</p> <p>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).</p> <p>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).</p> <p>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).</p> <p>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).</p> <p>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).</p> <p>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).</p> <p>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).</p>

Methods and material for containment and cleaning up

Methods for cleaning up	<p>☒ StrataClone Blunt Vector Mix amp/kan</p> <p>StrataClone Blunt Cloning Buffer</p> <p>StrataClone Blunt Control</p>	<p>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.</p> <p>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.</p> <p>Stop leak if without risk. Move containers from spill</p>
--------------------------------	--	--

Section 6. Accidental release measures

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.
PfuUltra II Fusion HS DNA Polymerase	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.
10X PfuUltra II Reaction 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

StrataClone Blunt Vector Mix amp/kan	Put on appropriate personal protective equipment (see Section 8).
StrataClone Blunt Cloning Buffer	Put on appropriate personal protective equipment (see Section 8).
StrataClone 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).
PfuUltra II Fusion HS DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
10X PfuUltra II Reaction Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

StrataClone Blunt Vector Mix amp/kan	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

Section 7. Handling and storage

StrataClone Blunt Control Insert	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. 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 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.
PfuUltra II Fusion HS DNA Polymerase	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.
10X PfuUltra II Reaction 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.

Conditions for safe storage, including any incompatibilities

StrataClone Blunt Vector Mix amp/kan	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.
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. See Section 10 for incompatible materials before handling or use.

Section 7. Handling and storage

StrataClone 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. See Section 10 for incompatible materials before handling or use.
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. See Section 10 for incompatible materials before handling or use.
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. See Section 10 for incompatible materials before handling or use.
PfuUltra II Fusion HS DNA Polymerase	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.
10X PfuUltra II Reaction 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
StrataClone Blunt Vector Mix amp/kan Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
StrataClone Blunt Cloning Buffer Polyethylene glycol	DFG MAC-values list (Germany, 7/2015). PEAK: 8000 mg/m ³ , 4 times per shift, 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.
PfuUltra II Fusion HS DNA Polymerase 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: chemical splash goggles.

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

- 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.

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

Appearance

Physical state	:	<ul style="list-style-type: none"> StrataClone Blunt Vector Mix amp/kan Liquid. StrataClone Blunt Cloning Buffer Liquid. StrataClone Blunt Control Insert Liquid. StrataClone SoloPack Competent Cells Liquid. pUC 18 DNA Control Plasmid Liquid. PfuUltra II Fusion HS DNA Polymerase Liquid. 10X PfuUltra II Reaction Buffer Liquid.
Colour	:	<ul style="list-style-type: none"> StrataClone Blunt Vector Mix amp/kan Not available. StrataClone Blunt Cloning Buffer Not available. StrataClone Blunt Control Insert Not available. StrataClone SoloPack Competent Cells Not available. pUC 18 DNA Control Plasmid Not available. PfuUltra II Fusion HS DNA Polymerase Not available. 10X PfuUltra II Reaction Buffer Not available.
Odour	:	<ul style="list-style-type: none"> StrataClone Blunt Vector Mix amp/kan Not available. StrataClone Blunt Cloning Buffer Not available. StrataClone Blunt Control Insert Not available. StrataClone SoloPack Competent Cells Not available. pUC 18 DNA Control Plasmid Not available. PfuUltra II Fusion HS DNA Polymerase Not available. 10X PfuUltra II Reaction Buffer Not available.
Odour threshold	:	<ul style="list-style-type: none"> StrataClone Blunt Vector Mix amp/kan Not available. StrataClone Blunt Cloning Buffer Not available. StrataClone Blunt Control Insert Not available. StrataClone SoloPack Competent Cells Not available. pUC 18 DNA Control Plasmid Not available. PfuUltra II Fusion HS DNA Polymerase Not available. 10X PfuUltra II Reaction Buffer Not available.
pH	:	

Section 9. Physical and chemical properties

	StrataClone Blunt Vector Mix	Not available.
	amp/kan	
	StrataClone Blunt Cloning Buffer	Not available.
	StrataClone Blunt Control Insert	7.5
	StrataClone SoloPack	Not available.
	Competent Cells	
	pUC 18 DNA Control Plasmid	7.5
	PfuUltra II Fusion HS DNA	8
	Polymerase	
	10X PfuUltra II Reaction Buffer	10
Melting point	StrataClone Blunt Vector Mix	Not available.
	amp/kan	
	StrataClone Blunt Cloning Buffer	Not available.
	StrataClone Blunt Control Insert	0°C (32°F)
	StrataClone SoloPack	Not available.
	Competent Cells	
	pUC 18 DNA Control Plasmid	0°C (32°F)
	PfuUltra II Fusion HS DNA	Not available.
	Polymerase	
	10X PfuUltra II Reaction Buffer	Not available.
Boiling point	StrataClone Blunt Vector Mix	Not available.
	amp/kan	
	StrataClone Blunt Cloning Buffer	Not available.
	StrataClone Blunt Control Insert	100°C (212°F)
	StrataClone SoloPack	Not available.
	Competent Cells	
	pUC 18 DNA Control Plasmid	100°C (212°F)
	PfuUltra II Fusion HS DNA	Not available.
	Polymerase	
	10X PfuUltra II Reaction Buffer	Not available.
Flash point	StrataClone Blunt Vector Mix	Not available.
	amp/kan	
	StrataClone Blunt Cloning Buffer	Not available.
	StrataClone Blunt Control Insert	Not available.
	StrataClone SoloPack	Not available.
	Competent Cells	
	pUC 18 DNA Control Plasmid	Not available.
	PfuUltra II Fusion HS DNA	Not available.
	Polymerase	
	10X PfuUltra II Reaction Buffer	Not available.
Evaporation rate	StrataClone Blunt Vector Mix	Not available.
	amp/kan	
	StrataClone Blunt Cloning Buffer	Not available.
	StrataClone Blunt Control Insert	Not available.
	StrataClone SoloPack	Not available.
	Competent Cells	
	pUC 18 DNA Control Plasmid	Not available.
	PfuUltra II Fusion HS DNA	Not available.

Section 9. Physical and chemical properties

		Polymerase	
		10X PfuUltra II Reaction Buffer	Not available.
Flammability (solid, gas)	:	StrataClone Blunt Vector Mix amp/kan	Not applicable.
		StrataClone Blunt Cloning Buffer	Not applicable.
		StrataClone Blunt Control Insert	Not applicable.
		StrataClone SoloPack	Not applicable.
		Competent Cells	
		pUC 18 DNA Control Plasmid	Not applicable.
		PfuUltra II Fusion HS DNA	Not applicable.
		Polymerase	
		10X PfuUltra II Reaction Buffer	Not applicable.
Lower and upper explosive (flammable) limits	:	StrataClone Blunt Vector Mix amp/kan	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone Blunt Control Insert	Not available.
		StrataClone SoloPack	Not available.
		Competent Cells	
		pUC 18 DNA Control Plasmid	Not available.
		PfuUltra II Fusion HS DNA	Not available.
		Polymerase	
		10X PfuUltra II Reaction Buffer	Not available.
Vapour pressure	:	StrataClone Blunt Vector Mix amp/kan	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone Blunt Control Insert	Not available.
		StrataClone SoloPack	Not available.
		Competent Cells	
		pUC 18 DNA Control Plasmid	Not available.
		PfuUltra II Fusion HS DNA	Not available.
		Polymerase	
		10X PfuUltra II Reaction Buffer	Not available.
Vapour density	:	StrataClone Blunt Vector Mix amp/kan	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone Blunt Control Insert	Not available.
		StrataClone SoloPack	Not available.
		Competent Cells	
		pUC 18 DNA Control Plasmid	Not available.
		PfuUltra II Fusion HS DNA	Not available.
		Polymerase	
		10X PfuUltra II Reaction Buffer	Not available.
Relative density	:	StrataClone Blunt Vector Mix amp/kan	Not available.
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone Blunt Control Insert	Not available.
		StrataClone SoloPack	Not available.

Section 9. Physical and chemical properties

	Competent Cells	
	pUC 18 DNA Control Plasmid	Not available.
	PfuUltra II Fusion HS DNA	Not available.
	Polymerase	
	10X PfuUltra II Reaction	Not available.
	Buffer	
Solubility	:  StrataClone Blunt Vector Mix	Soluble in the following materials: cold water and hot water.
	amp/kan	
	StrataClone Blunt Cloning	Soluble in the following materials: cold water and hot water.
	Buffer	
	StrataClone Blunt Control	Easily soluble in the following materials: cold water and hot water.
	Insert	
	StrataClone SoloPack	Soluble in the following materials: cold water and hot water.
	Competent Cells	
	pUC 18 DNA Control Plasmid	Easily soluble in the following materials: cold water and hot water.
	PfuUltra II Fusion HS DNA	Soluble in the following materials: cold water and hot water.
	Polymerase	
	10X PfuUltra II Reaction	Easily soluble in the following materials: cold water and hot water.
	Buffer	
Partition coefficient: n-octanol/water	:  StrataClone Blunt Vector Mix	Not available.
	amp/kan	
	StrataClone Blunt Cloning	Not available.
	Buffer	
	StrataClone Blunt Control	Not available.
	Insert	
	StrataClone SoloPack	Not available.
	Competent Cells	
	pUC 18 DNA Control Plasmid	Not available.
	PfuUltra II Fusion HS DNA	Not available.
	Polymerase	
	10X PfuUltra II Reaction	Not available.
	Buffer	
Auto-ignition temperature	:  StrataClone Blunt Vector Mix	Not available.
	amp/kan	
	StrataClone Blunt Cloning	Not available.
	Buffer	
	StrataClone Blunt Control	Not available.
	Insert	
	StrataClone SoloPack	Not available.
	Competent Cells	
	pUC 18 DNA Control Plasmid	Not available.
	PfuUltra II Fusion HS DNA	Not available.
	Polymerase	
	10X PfuUltra II Reaction	Not available.
	Buffer	
Decomposition temperature	:  StrataClone Blunt Vector Mix	Not available.
	amp/kan	
	StrataClone Blunt Cloning	Not available.
	Buffer	
	StrataClone Blunt Control	Not available.
	Insert	
	StrataClone SoloPack	Not available.
	Competent Cells	
	pUC 18 DNA Control Plasmid	Not available.
	PfuUltra II Fusion HS DNA	Not available.
	Polymerase	
	10X PfuUltra II Reaction	Not available.
	Buffer	

Section 9. Physical and chemical properties

Viscosity	:	StrataClone Blunt Vector Mix	Not available.
		amp/kan	
		StrataClone Blunt Cloning Buffer	Not available.
		StrataClone Blunt Control Insert	Not available.
		StrataClone SoloPack Competent Cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
		PfuUltra II Fusion HS DNA Polymerase	Not available.
		10X PfuUltra II Reaction Buffer	Not available.

Section 10. Stability and reactivity

Reactivity	:	StrataClone Blunt Vector Mix	No specific test data related to reactivity available for this product or its ingredients.
		amp/kan	
		StrataClone Blunt Cloning Buffer	No specific test data related to reactivity available for this product or its ingredients.
		StrataClone Blunt Control Insert	No specific test data related to reactivity available for this product or its ingredients.
		StrataClone SoloPack Competent Cells	No specific test data related to reactivity available for this product or its ingredients.
		pUC 18 DNA Control Plasmid	No specific test data related to reactivity available for this product or its ingredients.
		PfuUltra II Fusion HS DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
		10X PfuUltra II Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.

Chemical stability	:	StrataClone Blunt Vector Mix	The product is stable.
		amp/kan	
		StrataClone Blunt Cloning Buffer	The product is stable.
		StrataClone Blunt Control Insert	The product is stable.
		StrataClone SoloPack Competent Cells	The product is stable.
		pUC 18 DNA Control Plasmid	The product is stable.
		PfuUltra II Fusion HS DNA Polymerase	The product is stable.
		10X PfuUltra II Reaction Buffer	The product is stable.

Possibility of hazardous reactions	:	StrataClone Blunt Vector Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
		amp/kan	
		StrataClone Blunt Cloning Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
		StrataClone Blunt Control Insert	Under normal conditions of storage and use, hazardous reactions will not occur.
		StrataClone SoloPack Competent Cells	Under normal conditions of storage and use, hazardous reactions will not occur.
		pUC 18 DNA Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
		PfuUltra II Fusion HS DNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
		10X PfuUltra II Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

Conditions to avoid	:	StrataClone Blunt Vector Mix amp/kan	No specific data.		
		StrataClone Blunt Cloning Buffer	No specific data.		
		StrataClone Blunt Control Insert	No specific data.		
		StrataClone SoloPack Competent Cells	No specific data.		
		pUC 18 DNA Control Plasmid	No specific data.		
		PfuUltra II Fusion HS DNA Polymerase	No specific data.		
		10X PfuUltra II Reaction Buffer	No specific data.		
		Incompatible materials	:	StrataClone Blunt Vector Mix amp/kan	May react or be incompatible with oxidising materials.
				StrataClone Blunt Cloning Buffer	May react or be incompatible with oxidising materials.
StrataClone Blunt Control Insert	May react or be incompatible with oxidising materials.				
StrataClone SoloPack Competent Cells	May react or be incompatible with oxidising materials.				
pUC 18 DNA Control Plasmid	May react or be incompatible with oxidising materials.				
PfuUltra II Fusion HS DNA Polymerase	May react or be incompatible with oxidising materials.				
10X PfuUltra II Reaction Buffer	May react or be incompatible with oxidising materials.				
Hazardous decomposition products	:			StrataClone Blunt Vector Mix amp/kan	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
				StrataClone Blunt Cloning Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		StrataClone Blunt Control Insert	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
		StrataClone SoloPack Competent Cells	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.		
		PfuUltra II Fusion HS DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
		10X PfuUltra II Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
StrataClone Blunt Vector Mix amp/kan Glycerol	LD50 Oral	Rat	12600 mg/kg	-
StrataClone SoloPack Competent Cells Glycerol	LD50 Oral	Rat	12600 mg/kg	-
PfuUltra II Fusion HS DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
10X PfuUltra II Reaction Buffer Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
StrataClone Blunt Vector Mix amp/kan 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	-
PfuUltra II Fusion HS DNA Polymerase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
10X PfuUltra II Reaction Buffer Polyoxyethylene octyl phenyl ether	Eyes - Moderate irritant	Rabbit	-	24 hours 10 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-

Sensitisation

Not available.

Section 11. Toxicological information

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.

Information on likely routes of exposure	StrataClone Blunt Vector Mix amp/kan	Routes of entry anticipated: Oral, Dermal, Inhalation.
	StrataClone Blunt Cloning Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	StrataClone Blunt Control Insert	Not available.
	StrataClone SoloPack Competent Cells	Routes of entry anticipated: Oral, Dermal, Inhalation.
	pUC 18 DNA Control Plasmid	Not available.
	PfuUltra II Fusion HS DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	10X PfuUltra II Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
StrataClone 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.
PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.
10X PfuUltra II Reaction Buffer	Causes serious eye irritation.

Inhalation

StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
StrataClone 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.
PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.
10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.

Section 11. Toxicological information

Skin contact	:	StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.	
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.	
		StrataClone 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.	
		PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.	
		10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.	
	Ingestion	:	StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
			StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
			StrataClone 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.	
		PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.	
		10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.	

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	StrataClone Blunt Vector Mix amp/kan	No specific data.
		StrataClone Blunt Cloning Buffer	No specific data.
		StrataClone Blunt Control Insert	No specific data.
		StrataClone SoloPack Competent Cells	No specific data.
		pUC 18 DNA Control Plasmid	No specific data.
		PfuUltra II Fusion HS DNA Polymerase	No specific data.
		10X PfuUltra II Reaction Buffer	Adverse symptoms may include the following:
			pain or irritation
			watering
			redness
	Inhalation	:	StrataClone Blunt Vector Mix amp/kan
		StrataClone Blunt Cloning Buffer	No specific data.
		StrataClone Blunt Control Insert	No specific data.
		StrataClone SoloPack Competent Cells	No specific data.
		pUC 18 DNA Control Plasmid	No specific data.
		PfuUltra II Fusion HS DNA Polymerase	No specific data.
		10X PfuUltra II Reaction Buffer	No specific data.

Section 11. Toxicological information

Skin contact	:	☒ StrataClone Blunt Vector Mix	No specific data.	
		amp/kan		
		StrataClone Blunt Cloning Buffer	No specific data.	
		StrataClone Blunt Control Insert	No specific data.	
		StrataClone SoloPack Competent Cells	No specific data.	
		pUC 18 DNA Control Plasmid	No specific data.	
		PfuUltra II Fusion HS DNA Polymerase	No specific data.	
		10X PfuUltra II Reaction Buffer	No specific data.	
	Ingestion	:	☒ StrataClone Blunt Vector Mix	No specific data.
			amp/kan	
			StrataClone Blunt Cloning Buffer	No specific data.
		StrataClone Blunt Control Insert	No specific data.	
		StrataClone SoloPack Competent Cells	No specific data.	
		pUC 18 DNA Control Plasmid	No specific data.	
		PfuUltra II Fusion HS DNA Polymerase	No specific data.	
		10X PfuUltra II Reaction Buffer	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 Blunt Vector Mix	No known significant effects or critical hazards.	
		amp/kan		
		StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.	
		StrataClone 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.	
		PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.	
		10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.	
	Carcinogenicity	:	☒ StrataClone Blunt Vector Mix	No known significant effects or critical hazards.
			amp/kan	
			StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
		StrataClone Blunt Control Insert	No known significant effects or critical hazards.	
		StrataClone SoloPack Competent Cells	No known significant effects or critical hazards.	

Section 11. Toxicological information

	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.
	10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.
Mutagenicity	: StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone 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.
	PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.
	10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.
Teratogenicity	: StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone 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.
	PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.
	10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.
Developmental effects	: StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone 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.
	PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.
	10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.
Fertility effects	: StrataClone Blunt Vector Mix amp/kan	No known significant effects or critical hazards.
	StrataClone Blunt Cloning Buffer	No known significant effects or critical hazards.
	StrataClone 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.
	PfuUltra II Fusion HS DNA Polymerase	No known significant effects or critical hazards.
	10X PfuUltra II Reaction Buffer	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Route	ATE value
10X PfuUltra II Reaction Buffer Oral	180000 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
StrataClone Blunt Vector Mix amp/kan 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
PfuUltra II Fusion HS DNA Polymerase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
10X PfuUltra II Reaction Buffer Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
10X PfuUltra II Reaction Buffer Polyoxyethylene octyl phenyl ether	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
StrataClone Blunt Vector Mix amp/kan Glycerol	-1.76	-	low
StrataClone Blunt Cloning Buffer Polyethylene glycol	-	3.2	low
StrataClone SoloPack Competent Cells Glycerol	-1.76	-	low
PfuUltra II Fusion HS DNA Polymerase			

Section 12. Ecological information

Glycerol	-1.76	-	low
10X PfuUltra II Reaction Buffer			
Polyoxyethylene octyl phenyl ether	4.86	-	high

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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 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

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.

Section 15. Regulatory information

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: <input checked="" type="checkbox"/> All components are listed or exempted.
Japan	: <input checked="" type="checkbox"/> Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: <input checked="" type="checkbox"/> All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: <input checked="" type="checkbox"/> All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision	: 21/06/2017
Date of previous issue	: 08/12/2014.
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
-----------------------------	---

Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> 10X PfuUltra II Reaction Buffer Eye Irrit. 2A, H319	Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.