

# SAFETY DATA SHEET



BL21-Gold Competent Cells, Part Number 230130

## Section 1. Identification

**Product identifier** : BL21-Gold Competent Cells, Part Number 230130  
**Part no. (chemical kit)** : 230130  
**Part no.** : BL21-Gold competent cells 230130-41  
 pUC 18 DNA Control Plasmid 200231-42

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

**Material uses** : Analytical reagent.  
 BL21-Gold competent cells 1 ml (10 x 0.1 mL)  
 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.

BL21-Gold 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%

### GHS label elements

**Signal word** : BL21-Gold competent cells No signal word.  
 pUC 18 DNA Control Plasmid No signal word.  
**Hazard statements** : BL21-Gold competent cells No known significant effects or critical hazards.  
 pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : BL21-Gold competent cells Not applicable.  
 pUC 18 DNA Control Plasmid Not applicable.  
**Response** : BL21-Gold competent cells Not applicable.  
 pUC 18 DNA Control Plasmid Not applicable.  
**Storage** : BL21-Gold competent cells Not applicable.  
 pUC 18 DNA Control Plasmid Not applicable.  
**Disposal** : BL21-Gold competent cells Not applicable.  
 pUC 18 DNA Control Plasmid Not applicable.

### Supplemental label elements

**Additional warning phrases** : BL21-Gold competent cells Not applicable.  
 pUC 18 DNA Control Plasmid Not applicable.

**Other hazards which do not result in classification** : BL21-Gold competent cells None known.  
 pUC 18 DNA Control Plasmid None known.

## Section 3. Composition and ingredient information

**Substance/mixture** : BL21-Gold competent cells Mixture  
pUC 18 DNA Control Plasmid Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
BL21-Gold competent cells		
Glycerol	≥10 - ≤30	56-81-5
Dimethyl sulfoxide	≤10	67-68-5
Sucrose	≤10	57-50-1

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

<b>Eye contact</b>	: BL21-Gold 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.
<b>Inhalation</b>	: BL21-Gold 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.
<b>Skin contact</b>	: BL21-Gold 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.
<b>Ingestion</b>	: BL21-Gold 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

<b>Eye contact</b>	: BL21-Gold competent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
<b>Inhalation</b>	: BL21-Gold competent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.

## Section 4. First aid measures

<b>Skin contact</b>	: BL21-Gold competent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
<b>Ingestion</b>	: BL21-Gold 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

<b>Eye contact</b>	: BL21-Gold competent cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
<b>Inhalation</b>	: BL21-Gold competent cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
<b>Skin contact</b>	: BL21-Gold competent cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
<b>Ingestion</b>	: BL21-Gold competent cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.

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

<b>Notes to physician</b>	: BL21-Gold 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.
<b>Specific treatments</b>	: BL21-Gold competent cells	No specific treatment.
	pUC 18 DNA Control Plasmid	No specific treatment.
<b>Protection of first-aiders</b>	: BL21-Gold 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

<b>Suitable extinguishing media</b>	: BL21-Gold 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.
<b>Unsuitable extinguishing media</b>	: BL21-Gold competent cells	None known.
	pUC 18 DNA Control Plasmid	None known.
<b>Specific hazards arising from the chemical</b>	: BL21-Gold 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.
<b>Hazardous thermal decomposition products</b>	: BL21-Gold competent cells	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
	pUC 18 DNA Control Plasmid	No specific data.

## Section 5. Firefighting measures

<b>Special protective actions for fire-fighters</b>	: BL21-Gold 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.
<b>Special protective equipment for fire-fighters</b>	: BL21-Gold 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

<b>For non-emergency personnel</b>	: BL21-Gold 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.
<b>For emergency responders</b>	: BL21-Gold 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".
<b>Environmental precautions</b>	: BL21-Gold 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

<b>Methods for cleaning up</b>	: BL21-Gold 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

## Section 6. Accidental release measures

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

<b>Protective measures</b>	: BL21-Gold 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).
<b>Advice on general occupational hygiene</b>	: BL21-Gold 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.

<b>Conditions for safe storage, including any incompatibilities</b>	: BL21-Gold 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.

## Section 8. Exposure controls and personal protection

### Control parameters

### Occupational exposure limits

## Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
<b>BL21-Gold competent cells</b> Glycerol  Dimethyl sulfoxide          Sucrose	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. <b>DFG MAC-values list (Germany, 7/2017).</b> <b>Absorbed through skin.</b> PEAK: 320 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. TWA: 160 mg/m <sup>3</sup> 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. <b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 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** : BL21-Gold competent cells Liquid.  
pUC 18 DNA Control Plasmid Liquid.
- Colour** : BL21-Gold competent cells Not available.  
pUC 18 DNA Control Plasmid Not available.
- Odour** : BL21-Gold competent cells Not available.  
pUC 18 DNA Control Plasmid Not available.



## Section 9. Physical and chemical properties

<b>Odour threshold</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>pH</b>	:	BL21-Gold competent cells	6.4
		pUC 18 DNA Control Plasmid	7.5
<b>Melting point</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	0°C (32°F)
<b>Boiling point</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	100°C (212°F)
<b>Flash point</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Evaporation rate</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Flammability (solid, gas)</b>	:	BL21-Gold competent cells	Not applicable.
		pUC 18 DNA Control Plasmid	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Vapour pressure</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Vapour density</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Relative density</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Solubility</b>	:	BL21-Gold competent cells	Easily 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.
<b>Partition coefficient: n-octanol/water</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Auto-ignition temperature</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Decomposition temperature</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.
<b>Viscosity</b>	:	BL21-Gold competent cells	Not available.
		pUC 18 DNA Control Plasmid	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	:	BL21-Gold 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.
<b>Chemical stability</b>	:	BL21-Gold competent cells	The product is stable.
		pUC 18 DNA Control Plasmid	The product is stable.
<b>Possibility of hazardous reactions</b>	:	BL21-Gold 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.
<b>Conditions to avoid</b>	:	BL21-Gold competent cells	No specific data.
		pUC 18 DNA Control Plasmid	No specific data.
<b>Incompatible materials</b>	:	BL21-Gold competent cells	May react or be incompatible with oxidising materials.
		pUC 18 DNA Control Plasmid	May react or be incompatible with oxidising materials.

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: BL21-Gold 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.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
BL21-Gold competent cells				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
Sucrose	LD50 Oral	Rat	29700 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
BL21-Gold competent cells					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-

#### Sensitisation

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

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

Not available.

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

Not available.

#### Aspiration hazard

Not available.

**Information on likely routes of exposure** : BL21-Gold competent cells Routes of entry anticipated: Oral, Dermal, Inhalation.  
pUC 18 DNA Control Plasmid Not available.

#### Potential acute health effects



## Section 11. Toxicological information

<b>Eye contact</b>	: BL21-Gold competent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
<b>Inhalation</b>	: BL21-Gold competent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
<b>Skin contact</b>	: BL21-Gold competent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
<b>Ingestion</b>	: BL21-Gold 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

<b>Eye contact</b>	: BL21-Gold competent cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
<b>Inhalation</b>	: BL21-Gold competent cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
<b>Skin contact</b>	: BL21-Gold competent cells	No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
<b>Ingestion</b>	: BL21-Gold 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

**General** : BL21-Gold competent cells No known significant effects or critical hazards.  
pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

**Carcinogenicity** : BL21-Gold competent cells No known significant effects or critical hazards.  
pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

**Mutagenicity** : BL21-Gold competent cells No known significant effects or critical hazards.  
pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

**Teratogenicity** : BL21-Gold competent cells No known significant effects or critical hazards.  
pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

**Developmental effects** : BL21-Gold competent cells No known significant effects or critical hazards.  
pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

**Fertility effects** : BL21-Gold 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
BL21-Gold competent cells Glycerol Dimethyl sulfoxide	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 18299 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Acute LC50 37.437 mg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 3323 µg/l Marine water	Algae - Nitzschia pungens	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
BL21-Gold competent cells Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
BL21-Gold competent cells			
Glycerol	-1.76	-	low
Dimethyl sulfoxide	-1.35	3.16	low
Sucrose	-3.7	-	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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 spill 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.

## Section 14. Transport information

**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

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### 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.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

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

## Section 16. Any other relevant information

### History

<b>Date of issue/Date of revision</b>	: 31/10/2018
<b>Date of previous issue</b>	: 29/09/2016
<b>Version</b>	: 5

## Section 16. Any other relevant information

**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

**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.