SAFETY DATA SHEET



XL1-Blue Electroporation-Competent Cells, Part Number 200228

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier				
Product name	: XL1-Blue Electroporation	XL1-Blue Electroporation-Competent Cells, Part Number 200228		
Part no. (chemical kit)	: 200228	200228		
Part no.	: pUC 18 DNA Control Plasmid	•		
	XL1-Blue electroporation 200228-41 competent cells			
1.2 Relevant identified use	s of the substance or mixtu	re and uses advised	against	
Identified uses	: Analytical reagent.	: Analytical reagent.		
	pUC 18 DNA Control Plas XL1-Blue electroporation		0.01 ml (0.1 ng / μl) 5 x 0.1 ml	

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deuts	chland GmbH
Hewlett-Packard-Str. 8	
76337 Waldbronn	
Germany	
0800 603 1000	
e-mail address of person responsible for this SDS	: pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone : CHEMTREC®: +(44)-870-8200418 number (with hours of operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture : pUC 18 DNA Control **Product definition** Mixture Plasmid **XL1-Blue electroporation** Mixture competent cells Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified. The product is not classified as hazardous according to Regulation (EC) pUC 18 DNA Control Plasmid 1272/2008 as amended. The product is not classified as hazardous according to Regulation (EC) XL1-Blue electroporation 1272/2008 as amended. competent cells Ingredients of unknown : XL1-Blue electroporation Percentage of the mixture consisting of ingredient(s) of competent cells unknown acute inhalation toxicity: 10 - 30% toxicity Ingredients of unknown ż ecotoxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification

Signal word	: pUC 18 DNA Control	No signal word.
	Plasmid	,
	XL1-Blue electroporatio competent cells	n No signal word.
Hazard statements	: pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue electroporatio	n No known significant effects or critical hazards.
Precautionary statements		
Prevention	: pUC 18 DNA Control Plasmid	Not applicable.
	XL1-Blue electroporatio competent cells	n Not applicable.
Response	: pUC 18 DNA Control Plasmid	Not applicable.
	XL1-Blue electroporatio competent cells	n Not applicable.
Storage	: pUC 18 DNA Control Plasmid	Not applicable.
	XL1-Blue electroporatio competent cells	n Not applicable.
Disposal	: pUC 18 DNA Control Plasmid	Not applicable.
	XL1-Blue electroporatio competent cells	n Not applicable.
Supplemental label elements	: pUC 18 DNA Control Plasmid	Not applicable.
	XL1-Blue electroporatio competent cells	n Not applicable.
Annex XVII - Restrictions on the manufacture,	: pUC 18 DNA Control Plasmid	Not applicable.
placing on the market and use of certain dangerous substances, mixtures and articles	XL1-Blue electroporatio competent cells	n Not applicable.
Special packaging require	ments	
Tactile warning of	: pUC 18 DNA Control	Not applicable.
danger	Plasmid XL1-Blue electroporatio competent cells	n Not applicable.
.3 Other hazards		
Product meets the criteria for PBT or vPvB according to	: pUC 18 DNA Control Plasmid XL1-Blue electroporatio	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. n This mixture does not contain any substances that are
Regulation (EC) No. 1907/2006, Annex XIII	competent cells	assessed to be a PBT or a vPvB.
Other hazards which do	: pUC 18 DNA Control	None known.
not result in classification	Plasmid XL1-Blue electroporatio competent cells	n None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: pUC 18 DNA Contr XL1-Blue electropo competent cells		Mixture Mixture		
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
XL1-Blue electroporation competent cells					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified.	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>

XL1-Blue electroporation competent cells

[1] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid i			
Eye contact	:	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.
		XL1-Blue electroporation 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.
Inhalation	:	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.
		XL1-Blue electroporation competent cells	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	pUC 18 DNA Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		XL1-Blue electroporation competent cells	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	pUC 18 DNA Control Plasmid	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
		XL1-Blue electroporation competent cells	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	:	pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

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SECTION 4: First aid measures

Potential acute health effects

Potential acute health ef	<u>fects</u>
Eye contact	: pUC 18 DNA Control No known significant effects or critical hazards. Plasmid
	XL1-Blue electroporation No known significant effects or critical hazards. competent cells
Inhalation	: pUC 18 DNA Control No known significant effects or critical hazards. Plasmid
	XL1-Blue electroporation No known significant effects or critical hazards. competent cells
Skin contact	: pUC 18 DNA Control No known significant effects or critical hazards. Plasmid
	XL1-Blue electroporation No known significant effects or critical hazards. competent cells
Ingestion	: pUC 18 DNA Control No known significant effects or critical hazards. Plasmid
	XL1-Blue electroporation No known significant effects or critical hazards. competent cells
Over-exposure signs/sy	nptoms
Eye contact	: pUC 18 DNA Control No specific data. Plasmid
	XL1-Blue electroporation No specific data. competent cells
Inhalation	: pUC 18 DNA Control No specific data. Plasmid
	XL1-Blue electroporation No specific data. competent cells
Skin contact	: pUC 18 DNA Control No specific data. Plasmid
	XL1-Blue electroporation No specific data. competent cells
Ingestion	: pUC 18 DNA Control No specific data. Plasmid
	XL1-Blue electroporation No specific data. competent cells

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	: pUC 18 DNA Control Plasmid	Use an extinguishing agent suitable for the surrounding fire.
	XL1-Blue electroporation competent cells	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: pUC 18 DNA Control Plasmid	None known.
	XL1-Blue electroporation competent cells	None known.

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures

Hazards from the substance or mixture	DUC 18 DNA Cont Plasmid KL1-Blue electrop	container may burst.
	competent cells	container may burst.
Hazardous combustion products	oUC 18 DNA Cont Plasmid	•
	KL1-Blue electrope competent cells	oration Decomposition products may include the following materials:
		carbon dioxide carbon monoxide
5.3 Advice for firefighters		
Special precautions for fire-fighters	DUC 18 DNA Cont Plasmid XL1-Blue electropo	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	competent cells	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	oUC 18 DNA Cont Plasmid	trol Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	XL1-Blue electrop competent cells	•

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures : pUC 18 DNA Control No action shall be taken involving any personal risk or For non-emergency . Plasmid without suitable training. Evacuate surrounding areas. personnel Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or XL1-Blue electroporation without suitable training. Evacuate surrounding areas. competent cells Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, For emergency : pUC 18 DNA Control Plasmid take note of any information in Section 8 on suitable and responders unsuitable materials. See also the information in "For nonemergency personnel". If specialised clothing is required to deal with the spillage, XL1-Blue electroporation take note of any information in Section 8 on suitable and competent cells unsuitable materials. See also the information in "For nonemergency personnel". **6.2 Environmental** Avoid dispersal of spilt material and runoff and contact with : pUC 18 DNA Control Plasmid soil, waterways, drains and sewers. Inform the relevant precautions

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).

SECTION 6: Accidental release measures

6.3 Methods and material for	or containment and cleaning	J up
Methods for cleaning up	: 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.
	XL1-Blue electroporation 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.
6.4 Reference to other sections		ncy contact information. ion on appropriate personal protective equipment. nal waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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.
	XL1-Blue electroporation 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.

7.2 Conditions for safe storage, including any incompatibilities

:	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
	XL1-Blue electroporation competent cells	before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Storage

SECTION 7: Handling and storage

Recommendations	: pUC 18 DNA Control Plasmid	Industrial applications, Professional applications.				
	XL1-Blue electroporation competent cells	Industrial applications, Professional applications.				
Industrial sector specific solutions	: pUC 18 DNA Control Plasmid	Not available.				
	XL1-Blue electroporation competent cells	Not available.				

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
XL1-Blue electroporation competent cells Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m ³ 8 hours. Form: mist

Biological exposure indices

No exposure indices known.

1	
Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
DNELs/DMELs	
No DNELs/DMELs available	
PNECs	
No PNECs available	
8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</u>
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.
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SECTION 8: Exposure controls/personal protection

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.
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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>				
Physical state	1	pUC 18 DNA Control Plasmid	Liquid.	
		XL1-Blue electroporation competent cells	Liquid.	
Colour	:	pUC 18 DNA Control Plasmid	Not available.	
		XL1-Blue electroporation competent cells	Not available.	
Odour	1	pUC 18 DNA Control Plasmid	Not available.	
		XL1-Blue electroporation competent cells	Not available.	
Odour threshold	:	pUC 18 DNA Control Plasmid	Not available.	
		XL1-Blue electroporation competent cells	Not available.	
Melting point/freezing point	1	pUC 18 DNA Control Plasmid	0°C	
		XL1-Blue electroporation competent cells	Not available.	
Initial boiling point and boiling range	1	pUC 18 DNA Control Plasmid	100°C	
		XL1-Blue electroporation competent cells	Not available.	
Flammability	1	pUC 18 DNA Control Plasmid	Not applicable	•
		XL1-Blue electroporation competent cells	Not applicable	•
Upper/lower flammability or explosive limits	:	pUC 18 DNA Control Plasmid	Not available.	
		XL1-Blue electroporation competent cells	Not available.	
Flash point	1			

	Closed cup		Open cup		
Ingredient name	°C	Method	°C	Method	
XL1-Blue electroporation competent cells					
Glycerol	-	-	177	-	
D-Glucitol	-	-	282.85	-	

ECTION 9: Physic	,ai	anu chemicai p	ropen	les					
Auto-ignition	1	Ingredient name				°C		Method	
temperature		XL1-Blue electropol	ration co	mpetent o	cells				
		Glycerol				370	-		
Decomposition emperature	:	pUC 18 DNA Control Not available. Plasmid XL1-Blue electroporation Not available. competent cells							
н	:	pUC 18 DNA Control 7.5 Plasmid XL1-Blue electroporation Not available.							
/iscosity	:	competent cells pUC 18 DNA Control Not available. Plasmid XL1-Blue electroporation Not available. competent cells							
Solubility(ies)	:	Media				Res	sult		
		pUC 18 DNA Control water XL1-Blue electropor water			ells	Solu Solu			
Partition coefficient: n- octanol/water	:	pUC 18 DNA Control Not applicable. Plasmid XL1-Blue electroporation Not applicable. competent cells							
/apour pressure	:	Vapour Pressure at 20°				°C	Va	pour press	sure at 50°
		Ingredient name	mm Hg	kPa	Meth	od	mm Hg	kPa	Method
		pUC 18 DNA Control Plasmid							
		water	17.5	2.3	-		92.258	12.3	-
		XL1-Blue electroporation competent cells							
		water	17.5	2.3	-		92.258	12.3	-
		Glycerol	0.000075	0.00001	-		0.0025	0.00033	-
vaporation rate	:	pUC 18 DNA Control Plasmid XL1-Blue electroporat competent cells		available. available					
Relative density	:	pUC 18 DNA Control Plasmid XL1-Blue electroporat competent cells		available available					
/apour density	:	pUC 18 DNA Control Plasmid XL1-Blue electroporat		available. available					
xplosive properties	:	competent cells pUC 18 DNA Control	Not	available					
		Plasmid XL1-Blue electroporat competent cells	ion Not	available					

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SECTION 9: Physical and chemical properties

Oxidising properties	: pUC 18 DNA Control Plasmid	Not available.
	XL1-Blue electroporation competent cells	Not available.
Particle characteristics		
Median particle size	: pUC 18 DNA Control Plasmid	Not applicable.
	XL1-Blue electroporation competent cells	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stabi	lity and reactivity
10.1 Reactivity	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: pUC 18 DNA Control The product is stable. Plasmid XL1-Blue electroporation The product is stable. competent cells
10.3 Possibility of hazardous reactions	: pUC 18 DNA Control PlasmidUnder normal conditions of storage and use, hazardous reactions will not occur.XL1-Blue electroporation competent cellsUnder normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: pUC 18 DNA Control No specific data. Plasmid XL1-Blue electroporation No specific data. competent cells
10.5 Incompatible materials	: pUC 18 DNA Control May react or be incompatible with oxidising materials. Plasmid XL1-Blue electroporation May react or be incompatible with oxidising materials. competent cells
10.6 Hazardous decomposition products	 pUC18 Control Plasmid DNA XL1-Blue electroporation competent cells Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicolo	ogical effects
Acute toxicity	
Not available.	
Acute toxicity estimates N/A	
Irritation/Corrosion	
Conclusion/Summary	: Not available.
<u>Sensitiser</u>	
Conclusion/Summary	: Not available.
Mutagenicity	

SECTION 11: Toxicological information

Conclusion/Summary	: Not available.	
Carcinogenicity		
Conclusion/Summary	: Not available.	
Reproductive toxicity		
Conclusion/Summary	: Not available.	
Teratogenicity		
Conclusion/Summary	: Not available.	
Specific target organ tox Not available.	<u> (icity (single exposure)</u>	
Specific target organ tox	<u>kicity (repeated exposure)</u>	
Not available.		
Aspiration hazard Not available.		
Information on likely routes of exposure	: pUC 18 DNA Control Plasmid	Not available.
·	XL1-Blue electroporation competent cells	Not available.
Potential acute health ef		
Inhalation	: pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue electroporation competent cells	No known significant effects or critical hazards.
Ingestion	: pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	XL1-Blue electroporation competent cells	No known significant effects or critical hazards.
Skin contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation	No known significant effects or critical hazards. No known significant effects or critical hazards.
Eve context	competent cells	-
Eye contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation	No known significant effects or critical hazards. No known significant effects or critical hazards.
	competent cells	No known significant enects of citical hazards.
Symptoms related to the	physical, chemical and toxic	ological characteristics
Inhalation	: pUC 18 DNA Control Plasmid	No specific data.
	XL1-Blue electroporation competent cells	No specific data.
Ingestion	: pUC 18 DNA Control Plasmid	No specific data.
	XL1-Blue electroporation competent cells	No specific data.
Skin contact	: pUC 18 DNA Control Plasmid	No specific data.
	XL1-Blue electroporation competent cells	No specific data.
Eye contact	: pUC 18 DNA Control Plasmid	No specific data.
	XL1-Blue electroporation competent cells	No specific data.
Delayed and immediate	•	ects from short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
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SECTION 11: Toxicological information

		- <u>-</u>	
Potential delayed effects	:	Not available.	
Long term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
Potential chronic health e	effe	<u>cts</u>	
Conclusion/Summary	1	Not available.	
General	:	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
		XL1-Blue electroporation competent cells	No known significant effects or critical hazards.
Carcinogenicity	:	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
		XL1-Blue electroporation competent cells	No known significant effects or critical hazards.
Mutagenicity	:	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
		XL1-Blue electroporation competent cells	No known significant effects or critical hazards.
Reproductive toxicity	:	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
		XL1-Blue electroporation competent cells	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

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SECTION 12: Ecological information

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: 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.
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 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.

14.7 Transport in bulk according to IMO instruments

: Not available.

XL1-Blue Electroporation-Competent Cells, Part Number 200228 SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles No listed substance Label : pUC 18 DNA Control Plasmid Not applicable. XL1-Blue electroporation Not applicable. competent cells **Other EU regulations** Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. **Seveso Directive** This product is not controlled under the Seveso Directive. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. **Montreal Protocol** Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. **Rotterdam Convention on Prior Informed Consent (PIC)** Not listed. **UNECE Aarhus Protocol on POPs and Heavy Metals** Not listed. **Inventory list Australia** : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. **Eurasian Economic** : Russian Federation inventory: All components are listed or exempted. Union Japan : Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted. **New Zealand** : All components are listed or exempted. **Philippines** : All components are listed or exempted. **Republic of Korea** : All components are listed or exempted. Taiwan All components are listed or exempted. Thailand : Not determined. Turkey : Not determined.

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XL1-Blue Electroporation-Competent Cells, Part Number 200228		
SECTION 15: Regulatory information		
United States	: All components are active or exempted.	

15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments might still
assessment	be required.

: All components are listed or exempted.

SECTION 16: Other information

Indicates	information	that has	changed from	previousl	y issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Not classified.		

Full text of abbreviated H statements

Not applicable.

Viet Nam

Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of revision	: 30/06/2023
Date of previous issue	: No previous validation
Version	: 1

Notice to reader

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