SAFETY DATA SHEET



XL1-Blue Electroporation-Competent Cells, Part Number 200228

Section 1. Identification

1.1 Product identifier				
Product name	: XL1-Blue Electroporation-Competent Cells,	Part Number 200228		
Part no. (chemical kit)	: 200228			
Part no.	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	200231-42 200228-41		
Validation date	: 6/30/2023			
1.2 Relevant identified uses	of the substance or mixture and uses advised	<u>d against</u>		
Identified uses	: 🗚 nalytical reagent.			
	OC 18 DNA Control Plasmid	0.01 ml (0.1 ng / μl)		
	XL1-Blue electroporation competent cells	5 x 0.1 ml		
1.3 Details of the supplier of	the safety data sheet			
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770			
1.4 Emergency telephone number				
In case of emergency	: CHEMTREC®: 1-800-424-9300			

Section 2. Hazards identification

2.1 Classification of the su	bstance or mixture	
OSHA/HCS status	Plasmid C 1 T XL1-Blue electroporation W competent cells C 1 T	Vhile this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 910.1200), this SDS contains valuable information ritical to the safe handling and proper use of the product. This SDS should be retained and available for employees nd other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 910.1200), this SDS contains valuable information ritical to the safe handling and proper use of the product. This SDS should be retained and available for employees nd other users of this product.
Classification of the subst		
Classification of the substant Not classified.		
	K 1-Blue electroporation competent cells	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 2.3%
2.2 GHS label elements		
Signal word	 pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells 	No signal word. No signal word.
Hazard statements	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.

Section 2. Hazards identification

Precautionary statements

i recautionary statements		
Prevention	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	Not applicable. Not applicable.
Response	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	Not applicable. Not applicable.
Storage	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	Not applicable. Not applicable.
Disposal	 pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells 	Not applicable. Not applicable.
Supplemental label elements	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	None known. None known.
2.3 Other hazards		
Hazards not otherwise classified	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	None known. None known.

Section 3. Composition/information on ingredients

Sub	stan	ce/	mi	xtu	re

: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells

Ingredient name	%	CAS number
L1-Blue electroporation competent cells		
Glycerol	<10	56-81-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of neces	<u>ssary first aid measures</u>	
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.

Section 4. Firs	at aid measures	
Skin contact	: pUC 18 DNA Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	XL1-Blue electroporation competent cells	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: pÚC 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 medica 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 medica personnel. Get medical attention if symptoms occur.
4.2 Most important svr	nptoms/effects, acute and delayed	
Potential acute health		
Eye contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs	/symptoms	
Eye contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. No specific data.
Inhalation	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. No specific data.
Skin contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. No specific data.
Ingestion	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	: pUC 18 DNA Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled	

	ingested or inhaled.
XL1-Blue electroporation	Treat symptomatically. Contact poison treatment
competent cells	specialist immediately if large quantities have been
	ingested or inhaled.

Section 4. First aid measures

Specific treatments	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific treatment. No specific treatment.
Protection of first-aiders	: pUC 18 DNA Control Plasmid	No action shall be taken involving any personal risk or without suitable training.
	XL1-Blue electroporation competent cells	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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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 XL1-Blue electroporation competent cells	None known. None known.
5.2 Special hazards arising	from the substance or mixture	
Specific hazards arising from the chemical	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	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	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: 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.
	XL1-Blue electroporation 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.
Special protective equipment for fire-fighters	: 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.
	XL1-Blue electroporation 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.

Section 6. Accidental release measures

6.1 Personal precautions, pre	otective equipment and emergency	<u>procedures</u>
For non-emergency personnel	: pUC 18 DNA Control Plasmid XL1-Blue electroporation	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 spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal
	competent cells	risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: pUC 18 DNA Control Plasmid	If specialized 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".
	XL1-Blue electroporation competent cells	If specialized 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".
6.2 Environmental precautions	: pUC 18 DNA Control Plasmid	Avoid dispersal of spilled 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).
	XL1-Blue electroporation competent cells	Avoid dispersal of spilled 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).
6.3 Methods and materials for	or containment and cleaning 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.

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).

Section 7. Handling and storage

	ng and otorago	
Advice on general occupational hygiene	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
	XL1-Blue electroporation competent cells	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
7.3 Specific end use(s)		
Recommendations	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits		
XL1-Blue electroporation competent cells			
Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: respirable fraction TWA: 10 mg/m ³ 8 hours. Form: total dust		

Biological exposure indices

No exposure indices known.

8.2 Exposure controls	
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 measure	<u>ires</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.
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 and safety characteristics

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

Appearance

<u>Appearance</u>								
Physical state	:	pUC 18 DNA Control XL1-Blue electroporation competent cells		Liqui Liqui				
Color	:	pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells		Not available. Not available.				
Odor	:	pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells			available. available.			
Odor threshold	:	pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells			available. available.			
рН	:	pUC 18 DNA Control Plasmid7.5XL1-Blue electroporationNot available.competent cellsNot available.						
Melting point/freezing point	:	pUC 18 DNA Control Plasmid 0°C (32°F) XL1-Blue electroporation Not availabl competent cells		. ,				
Boiling point, initial boiling point, and boiling range	:	pUC 18 DNA Control Plasmid 100°C (212°F) XL1-Blue electroporation Not available. competent cells						
Flash point	1		(Closed cu	р		Open	cup
		Ingredient name	°C	°F	Method	°C	°F	Method
		K L1-Blue electroporation competent cells						
		Glycerol	-	-	-	177	350.6	-
		D-Glucitol	-	-	-	282.85	541.1	-
Evaporation rate	:	pUC 18 DNA Control XL1-Blue electroporation competent cells			available. available.			
Flammability	:	pUC 18 DNA Control Plasmid Not applicable. XL1-Blue electroporation Not applicable. competent cells						
Lower and upper explosion limit/flammability limit	:	pUC 18 DNA Control Plasmid Not available. XL1-Blue electroporation Not available. competent cells						
Vapor pressure	:		Vapo	or Pressu	re at 20°C	Vap	or press	ure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		P UC 18 DNA Control Plasmid						
		water	17.5	2.3	-	92.258	12.3	-
		XL1-Blue electroporation competent cells						

Section 9. Physical and chemical properties and safety characteristics

Section 9. Physica	u di		hiohe		and	u Sale		aracle	
	w	vater	17.5	2.3	-		92.258	12.3	-
	Ģ	Slycerol	0.000075	0.00001	-		0.0025	0.00033	-
Relative vapor density	X	UC 18 DNA Control L1-Blue electroporat ompetent cells		Not a Not a					
Relative density	X	UC 18 DNA Control L1-Blue electroporat ompetent cells		Not a Not a					
Solubility(ies)	: M	ledia			R	esult			
	w X C	UC 18 DNA Control ater L1-Blue electropora ells ater		npetent		bluble			
		_	D I . I						
Partition coefficient: n- octanol/water	X	UC 18 DNA Control L1-Blue electroporat ompetent cells		Not a Not a					
Auto-ignition temperature	- i h	ngredient name		°C		°F		Method	
		L1-Blue electropor competent cells	ation						
	Ģ	Glycerol		370		698	-		
Decomposition temperature	X	JC 18 DNA Control L1-Blue electroporat ompetent cells		Not a Not a			L		
Viscosity	X	UC 18 DNA Control L1-Blue electroporat ompetent cells		Not a Not a					
Particle characteristics									
Median particle size	X	UC 18 DNA Control L1-Blue electroporat ompetent cells		Not a Not a					
Section 10. Stabili	ty a	nd reactivity	y						
10.1 Reactivity	: pl	JC 18 DNA Control	Plasmid			ic test da oduct or i			ity available
		L1-Blue electroporat ompetent cells	ion	No sp	pecifi		ta relate	d to reactiv	ity available
10.2 Chemical stability	X	UC 18 DNA Control L1-Blue electroporat ompetent cells				uct is stat uct is stat			
10.3 Possibility of hazardous reactions	-	UC 18 DNA Control		haza	rdous	s reactior	ns will no		
		L1-Blue electroporat ompetent cells	ion			mal cono s reactior		storage ar t occur.	nd use,

 10.4 Conditions to avoid
 : pUC 18 DNA Control Plasmid
 No specific data.

 XL1-Blue electroporation
 No specific data.

 competent cells
 No specific data.

Section 10. Stability and reactivity

: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
•	, , , , , , , , , , , , , , , , , , , ,
: pUC 18 DNA Control Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
XL1-Blue electroporation competent cells	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XL1-Blue electroporation

Section 11. Toxicological information

Product/ingredient name	Result		Species	Dose	Exposure
XL1-Blue electroporation competent cells Glycerol	LD50 Oral		Rat	12600 mg/kg	-
Irritation/Corrosion					
Product/ingredient name	Result	Spec	es Score	Exposure	Observation
XL1-Blue electroporation competent cells Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbi Rabbi		24 hours 50 mg 24 hours 50	
Sensitization Not available. Mutagenicity Conclusion/Summary Carcinogenicity Conclusion/Summary Reproductive toxicity Conclusion/Summary Teratogenicity	Not available.Not available.Not available.				
Conclusion/Summary Specific target organ toxicity Not available.	: Not available. <u>(single exposure)</u>				
Specific target organ toxicity Not available.	<u>r (repeated exposure)</u>				
<mark>Aspiration hazard</mark> Not available.					
formation on the likely outes of exposure	: pUC 18 DNA Control Pla XL1-Blue electroporation competent cells		Not availabl Not availabl		

Section 11. Toxicological information

	J	
Eye contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. No specific data.
Inhalation	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. No specific data.
Skin contact	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. No specific data.
Ingestion	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells	No specific data. No specific data.

Delayed and immediate effects and also 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 eff	<u>ects</u>
General	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells
Carcinogenicity	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells
Mutagenicity	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: pUC 18 DNA Control Plasmid XL1-Blue electroporation competent cells No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	(mg/kg)	(gases)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
XL1-Blue electroporation competent cells Glycerol	12600	N/A	N/A	N/A	N/A

Section 12. Ecological information

12.1 Toxicity			
Product/ingredient name	Result	Species	Exposure
XL1-Blue electroporation competent cells Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
XL1-Blue electroporation competent cells Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
XL1-Blue electroporation competent cells			
Glycerol	-1.76	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods

: The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

XL1-Blue Electroporation-Competent Cells, Part Number 200228

Section 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. IATA

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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.
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Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

S. Federal regulations	.,	Exempt/Partial exemption: Not determined (CWA) 311: Edetic acid		
lean Air Act Section 112 b) Hazardous Air ollutants (HAPs)	: Not listed			
lean Air Act Section 602 lass I Substances	: Not listed			
lean Air Act Section 602 lass II Substances	: Not listed	Not listed		
EA List I Chemicals Precursor Chemicals)	: Not listed			
EA List II Chemicals Essential Chemicals)	: Not listed			
ARA 302/304				
Composition/information of	on ingredients			
No products were found.				
SARA 304 RQ	: Not applicable.			
ARA 311/312				
Classification		pUC 18 DNA Control Plasmid Not applicable. XL1-Blue electroporation competent cells Not applicable.		
Composition/information of	<u>on ingredients</u>			
Name	%	Classification		
XL1-Blue electroporation competent cells				
Glycerol	<10	EYE IRRITATION - Category 2B		

Section 15. Regulatory information

State regulations	
Massachusetts	: The following components are listed: GLYCERINE MIST
New York	: None of the components are listed.
New Jersey	: The following components are listed: GLYCERIN
Pennsylvania	: The following components are listed: 1,2,3-PROPANETRIOL
California Prop. 65	
This product does no	ot require a Safe Harbor warning under California Prop. 65.
International regulations	
Chemical Weapon Con	- vention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
	on Persistent Organic Pollutants
Not listed.	
Rotterdam Convention	on Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protoco	ol on POPs and Heavy Metals
Not listed.	
nyontory list	
	· All components are listed or exempted
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
Australia Canada China	All components are listed or exempted.All components are listed or exempted.
Australia Canada	 All components are listed or exempted. All components are listed or exempted. Japan inventory (CSCL): All components are listed or exempted.
Australia Canada China	All components are listed or exempted.All components are listed or exempted.
Australia Canada China Japan	 All components are listed or exempted. All components are listed or exempted. Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
Australia Canada China Japan New Zealand	 All components are listed or exempted. All components are listed or exempted. Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted. All components are listed or exempted.
Australia Canada China Japan New Zealand Philippines	 All components are listed or exempted. All components are listed or exempted. Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted. All components are listed or exempted. All components are listed or exempted.
Australia Canada China Japan New Zealand Philippines Republic of Korea	 All components are listed or exempted. All components are listed or exempted. Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted. All components are listed or exempted. All components are listed or exempted. All components are listed or exempted.
Australia Canada China Japan New Zealand Philippines Republic of Korea Taiwan	 All components are listed or exempted. All components are listed or exempted. Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted. All components are listed or exempted.
Australia Canada China Japan New Zealand Philippines Republic of Korea Taiwan Thailand	 All components are listed or exempted. All components are listed or exempted. Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted. All components are listed or exempted. Not determined.

Section 16. Other information

Procedure used to derive the classification

	Classification	Justification
Not classified.		
History		
Date of issue/Date of revision	: 06/30/2023	
Date of previous issue	: 03/23/2020	
Version	: 7	

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	UN = United Nations
	that has sherred from providently increasing

Indicates information that has changed from previously issued version.

Notice to reader

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