



## Section 2. Hazards identification

### Precautionary statements

<b>Prevention</b>	: BJ5183-AD-1 electroporation competent cells	Not applicable.
	Transformation Control	Not applicable.
<b>Response</b>	: BJ5183-AD-1 electroporation competent cells	Not applicable.
	Transformation Control	Not applicable.
<b>Storage</b>	: BJ5183-AD-1 electroporation competent cells	Not applicable.
	Transformation Control	Not applicable.
<b>Disposal</b>	: BJ5183-AD-1 electroporation competent cells	Not applicable.
	Transformation Control	Not applicable.
<b>Supplemental label elements</b>	: BJ5183-AD-1 electroporation competent cells	None known.
	Transformation Control	None known.

### 2.3 Other hazards

<b>Hazards not otherwise classified</b>	: BJ5183-AD-1 electroporation competent cells	None known.
	Transformation Control	None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: BJ5183-AD-1 electroporation competent cells	Mixture
	Transformation Control	Mixture

Ingredient name	%	CAS number
<b>BJ5183-AD-1 electroporation competent cells</b>		
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 necessary first aid measures

<b>Eye contact</b>	: BJ5183-AD-1 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.
	Transformation Control	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>	: BJ5183-AD-1 electroporation competent cells	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Transformation Control	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

## Section 4. First aid measures

<b>Skin contact</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	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. 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.

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No known significant effects or critical hazards.
<b>Inhalation</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No known significant effects or critical hazards.
<b>Skin contact</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No known significant effects or critical hazards.
<b>Ingestion</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No specific data.
<b>Inhalation</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No specific data.
<b>Skin contact</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No specific data.
<b>Ingestion</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No specific data.

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

<b>Notes to physician</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	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.
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## Section 4. First aid measures

<b>Specific treatments</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No specific treatment.
<b>Protection of first-aiders</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	No specific treatment. 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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	None known. None known.

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	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.
<b>Hazardous thermal decomposition products</b>	: BJ5183-AD-1 electroporation competent cells  Transformation Control	Decomposition products may include the following materials: carbon dioxide carbon monoxide No specific data.

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	: BJ5183-AD-1 electroporation competent cells  Transformation Control	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. 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>	: BJ5183-AD-1 electroporation competent cells  Transformation Control	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: BJ5183-AD-1 electroporation 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 spilled material. Put on appropriate personal protective equipment.
	Transformation Control	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.
<b>For emergency responders</b>	: BJ5183-AD-1 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".
	Transformation Control	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".

<b>6.2 Environmental precautions</b>	: BJ5183-AD-1 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).
	Transformation Control	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 containment and cleaning up

<b>Methods for cleaning up</b>	: BJ5183-AD-1 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.
	Transformation Control	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

<b>Protective measures</b>	: BJ5183-AD-1 electroporation competent cells	Put on appropriate personal protective equipment (see Section 8).
	Transformation Control	Put on appropriate personal protective equipment (see Section 8).

## Section 7. Handling and storage

<b>Advice on general occupational hygiene</b>	: BJ5183-AD-1 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.
	Transformation Control	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>7.2 Conditions for safe storage, including any incompatibilities</b>	: BJ5183-AD-1 electroporation 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Transformation Control	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.
<b>7.3 Specific end use(s)</b>		
<b>Recommendations</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: <del>BJ</del> 5183-AD-1 electroporation competent cells Transformation Control	Industrial applications, Professional applications. 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
<b>BJ5183-AD-1 electroporation competent cells</b> Glycerol	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 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 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 and safety characteristics

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

### Appearance


<b>Physical state</b>	: BJ5183-AD-1 electroporation competent cells	Liquid.
	Transformation Control	Liquid.
<b>Color</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	Not available.
<b>Odor</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	Not available.
<b>Odor threshold</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	Not available.
<b>pH</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	7.5
<b>Melting point/freezing point</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	0°C (32°F)
<b>Boiling point, initial boiling point, and boiling range</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	100°C (212°F)

Flash point	:		Closed cup			Open cup		
		Ingredient name	°C	°F	Method	°C	°F	Method
		 BJ5183-AD-1 electroporation competent cells						
		Glycerol				177	350.6	
		D-Glucitol				282.85	541.1	

<b>Evaporation rate</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	Not available.

<b>Flammability</b>	: BJ5183-AD-1 electroporation competent cells	Not applicable.
	Transformation Control	Not applicable.

<b>Lower and upper explosion limit/flammability limit</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	Not available.

Vapor pressure	:	Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
			mm Hg	kPa	Method	mm Hg	kPa	Method
	 BJ5183-AD-1 electroporation competent cells							
	water	23.8	3.2		92.258	12.3		
	Glycerol	0.000075	0.00001		0.0025	0.00033		



## Section 9. Physical and chemical properties and safety characteristics

		<b>Transformation Control</b>					
		water	23.8	3.2		92.258	12.3
<b>Relative vapor density</b>	:	BJ5183-AD-1 electroporation competent cells		Not available.			
		Transformation Control		Not available.			
<b>Relative density</b>	:	BJ5183-AD-1 electroporation competent cells		Not available.			
		Transformation Control		Not available.			
<b>Solubility(ies)</b>	:	<b>Media</b>		<b>Result</b>			
		<b>BJ5183-AD-1 electroporation competent cells</b>					
		water		Soluble			
		<b>Transformation Control</b>					
		water		Soluble			
<b>Partition coefficient: n-octanol/water</b>	:	BJ5183-AD-1 electroporation competent cells		Not applicable.			
		Transformation Control		Not applicable.			
<b>Auto-ignition temperature</b>	:	<b>Ingredient name</b>		<b>°C</b>	<b>°F</b>	<b>Method</b>	
		<b>BJ5183-AD-1 electroporation competent cells</b>					
		Glycerol		370	698		
<b>Decomposition temperature</b>	:	BJ5183-AD-1 electroporation competent cells		Not available.			
		Transformation Control		Not available.			
<b>Viscosity</b>	:	BJ5183-AD-1 electroporation competent cells		Not available.			
		Transformation Control		Not available.			
<b><u>Particle characteristics</u></b>							
<b>Median particle size</b>	:	BJ5183-AD-1 electroporation competent cells		Not applicable.			
		Transformation Control		Not applicable.			

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: BJ5183-AD-1 electroporation competent cells	No specific test data related to reactivity available for this product or its ingredients.
	Transformation Control	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: BJ5183-AD-1 electroporation competent cells	The product is stable.
	Transformation Control	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: BJ5183-AD-1 electroporation competent cells	Under normal conditions of storage and use, hazardous reactions will not occur.
	Transformation Control	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: BJ5183-AD-1 electroporation competent cells	No specific data.
	Transformation Control	No specific data.

## Section 10. Stability and reactivity

<b>10.5 Incompatible materials</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
<b>10.6 Hazardous decomposition products</b>	: BJ5183-AD-1 electroporation competent cells Transformation Control	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 toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>BJ5183-AD-1 electroporation competent cells</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>BJ5183-AD-1 electroporation competent cells</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

#### Sensitization

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.

## Section 11. Toxicological information

<b>Information on the likely routes of exposure</b>	: BJ5183-AD-1 electroporation competent cells	Not available.
	Transformation Control	Not available.
<b><u>Potential acute health effects</u></b>		
<b>Eye contact</b>	: BJ5183-AD-1 electroporation competent cells	No known significant effects or critical hazards.
	Transformation Control	No known significant effects or critical hazards.
<b>Inhalation</b>	: BJ5183-AD-1 electroporation competent cells	No known significant effects or critical hazards.
	Transformation Control	No known significant effects or critical hazards.
<b>Skin contact</b>	: BJ5183-AD-1 electroporation competent cells	No known significant effects or critical hazards.
	Transformation Control	No known significant effects or critical hazards.
<b>Ingestion</b>	: BJ5183-AD-1 electroporation competent cells	No known significant effects or critical hazards.
	Transformation Control	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: BJ5183-AD-1 electroporation competent cells	No specific data.
	Transformation Control	No specific data.
<b>Inhalation</b>	: BJ5183-AD-1 electroporation competent cells	No specific data.
	Transformation Control	No specific data.
<b>Skin contact</b>	: BJ5183-AD-1 electroporation competent cells	No specific data.
	Transformation Control	No specific data.
<b>Ingestion</b>	: BJ5183-AD-1 electroporation competent cells	No specific data.
	Transformation Control	No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Potential chronic health effects

<b>General</b>	: BJ5183-AD-1 electroporation competent cells	No known significant effects or critical hazards.
	Transformation Control	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: BJ5183-AD-1 electroporation competent cells	No known significant effects or critical hazards.
	Transformation Control	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: BJ5183-AD-1 electroporation competent cells	No known significant effects or critical hazards.
	Transformation Control	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: BJ5183-AD-1 electroporation competent cells	No known significant effects or critical hazards.
	Transformation Control	No known significant effects or critical hazards.

## Section 11. Toxicological information

### [Numerical measures of toxicity](#)

#### [Acute toxicity estimates](#)

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
BJ5183-AD-1 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
BJ5183-AD-1 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
BJ5183-AD-1 electroporation competent cells Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

### [12.3 Bioaccumulative potential](#)

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
BJ5183-AD-1 electroporation competent cells Glycerol	-1.76	-	low

### [12.4 Mobility in soil](#)

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

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

## Section 13. Disposal considerations

### [13.1 Waste treatment methods](#)

## Section 13. Disposal considerations

**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.

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 / IATA** : Not regulated.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

## Section 15. Regulatory information

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

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
Clean Water Act (CWA) 311: Edetic acid

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

## Section 15. Regulatory information

### SARA 311/312

**Classification** : BJ5183-AD-1 electroporation competent cells  
Transformation Control : Not applicable.

### Composition/information on ingredients

Name	%	Classification
BJ5183-AD-1 electroporation competent cells		
Glycerol	<10	EYE IRRITATION - Category 2B

### 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 not require a Safe Harbor warning under California Prop. 65.

### 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 Union** : **Russian Federation inventory**: All components are listed or exempted.  
**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.  
**United States** : All components are active or exempted.  
**Viet Nam** : All components are listed or exempted.

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
Not classified.	

### History

<b>Date of issue</b>	: 04/20/2023
<b>Date of previous issue</b>	: 12/24/2019
<b>Version</b>	: 4
<b>Key to abbreviations</b>	: 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

📌 Indicates information that has changed from previously issued version.

### Notice to reader

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