

# SAFETY DATA SHEET



ZAP-CMV XR Predigested Vector Kit, Part Number 239222

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

### 1.1 Product identifier

**Product name** : ZAP-CMV XR Predigested Vector Kit, Part Number 239222  
**Part No. (Kit)** : 239222  
**Part No.** : pBR322 Test Insert 210200-52  
Digested With EcoR I and Sal I  
XL1-Blue MRF' E.coli Strain 200301-81  
XLOLR E. coli Strain 200304-81  
ExAssist Interference-Resistant Helper Phage 200253-81  
R408 Interference-Resistant Helper Phage 200252-81  
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated 239222-51

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

Identified uses	
Analytical reagent.	
pBR322 Test Insert Digested With EcoR I and Sal I	10 µl (2.5 µg 0.25 µg/µl)
XL1-Blue MRF' E.coli Strain	500 µl
XLOLR E. coli Strain	500 µl
ExAssist Interference-Resistant Helper Phage	1 ml (>1 x E10 pfu/ml)
R408 Interference-Resistant Helper Phage	1 ml
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	10 µl (10 µg 1 µg/µl)

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
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 number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

## SECTION 2: Hazards identification

<b>Product definition</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Mixture
		XL1-Blue MRF' E.coli Strain	Mixture
		XLOLR E. coli Strain	Mixture
		ExAssist Interference- Resistant Helper Phage	Mixture
		R408 Interference- Resistant Helper Phage	Mixture
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

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

<b>Signal word</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	No signal word.
		XL1-Blue MRF' E.coli Strain	No signal word.
		XLOLR E. coli Strain	No signal word.
		ExAssist Interference- Resistant Helper Phage	No signal word.
		R408 Interference- Resistant Helper Phage	No signal word.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No signal word.

<b>Hazard statements</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	No known significant effects or critical hazards.
		XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards.
		XLOLR E. coli Strain	No known significant effects or critical hazards.
		ExAssist Interference- Resistant Helper Phage	No known significant effects or critical hazards.
		R408 Interference- Resistant Helper Phage	No known significant effects or critical hazards.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.

### Precautionary statements

<b>Prevention</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
		XL1-Blue MRF' E.coli Strain	Not applicable.
		XLOLR E. coli Strain	Not applicable.
		ExAssist Interference- Resistant Helper Phage	Not applicable.
		R408 Interference- Resistant Helper Phage	Not applicable.
		Lambda ZAP-CMV XR	Not applicable.

**SECTION 2: Hazards identification**

	Vector Digested With Xho I And EcoR I CIAP Treated	
<b>Response</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
	XL1-Blue MRF' E.coli Strain	Not applicable.
	XLOLR E. coli Strain	Not applicable.
	ExAssist Interference-Resistant Helper Phage	Not applicable.
	R408 Interference-Resistant Helper Phage	Not applicable.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.
<b>Storage</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
	XL1-Blue MRF' E.coli Strain	Not applicable.
	XLOLR E. coli Strain	Not applicable.
	ExAssist Interference-Resistant Helper Phage	Not applicable.
	R408 Interference-Resistant Helper Phage	Not applicable.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.
<b>Disposal</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
	XL1-Blue MRF' E.coli Strain	Not applicable.
	XLOLR E. coli Strain	Not applicable.
	ExAssist Interference-Resistant Helper Phage	Not applicable.
	R408 Interference-Resistant Helper Phage	Not applicable.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.
<b>Hazardous ingredients</b>	: XL1-Blue MRF' E.coli Strain	Not applicable.
	XLOLR E. coli Strain	Not applicable.
<b>Supplemental label elements</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
	XL1-Blue MRF' E.coli Strain	Safety data sheet available on request.
	XLOLR E. coli Strain	Safety data sheet available on request.
	ExAssist Interference-Resistant Helper Phage	Not applicable.
	R408 Interference-Resistant Helper Phage	Not applicable.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.

## SECTION 2: Hazards identification

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
	XL1-Blue MRF' E.coli Strain	Not applicable.
	XL0LR E. coli Strain	Not applicable.
	ExAssist Interference-Resistant Helper Phage	Not applicable.
	R408 Interference-Resistant Helper Phage	Not applicable.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.

### Special packaging requirements

<b>Tactile warning of danger</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
	XL1-Blue MRF' E.coli Strain	Not applicable.
	XL0LR E. coli Strain	Not applicable.
	ExAssist Interference-Resistant Helper Phage	Not applicable.
	R408 Interference-Resistant Helper Phage	Not applicable.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.

### 2.3 Other hazards

<b>Other hazards which do not result in classification</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	None known.
	XL1-Blue MRF' E.coli Strain	None known.
	XL0LR E. coli Strain	None known.
	ExAssist Interference-Resistant Helper Phage	None known.
	R408 Interference-Resistant Helper Phage	None known.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	None known.

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Mixture
	XL1-Blue MRF' E.coli Strain	Mixture
	XL0LR E. coli Strain	Mixture
	ExAssist Interference-Resistant Helper Phage	Mixture
	R408 Interference-Resistant Helper Phage	Mixture
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Mixture

### SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>XL1-Blue MRF' E.coli Strain</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
<b>XLOLR E. coli Strain</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
			<b>See Section 16 for the full text of the H statements declared above.</b>	

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

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Eye contact</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain  XLOLR E. coli Strain  ExAssist Interference-Resistant Helper Phage  R408 Interference-Resistant Helper Phage  Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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. 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. 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. 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. 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. 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>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain  XLOLR E. coli Strain  ExAssist Interference-Resistant Helper Phage  R408 Interference-	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position

**SECTION 4: First aid measures**

	Resistant Helper Phage	comfortable for breathing. Get medical attention if symptoms occur.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	XL1-Blue MRF' E.coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	XL0LR E. coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ExAssist Interference-Resistant Helper Phage	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	R408 Interference-Resistant Helper Phage	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	XL1-Blue MRF' E.coli Strain	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	XL0LR E. coli Strain	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	ExAssist Interference-Resistant Helper Phage	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	R408 Interference-Resistant Helper Phage	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.



## SECTION 4: First aid measures

<b>Protection of first-aiders</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XL0LR E. coli Strain  ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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.  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.  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.
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### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XL0LR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Inhalation</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XL0LR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Skin contact</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XL0LR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards.

**SECTION 4: First aid measures**

**Ingestion** : pBR322 Test Insert Digested With EcoR I and Sal I No known significant effects or critical hazards.  
 XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.  
 XLOLR E. coli Strain No known significant effects or critical hazards.  
 ExAssist Interference-Resistant Helper Phage No known significant effects or critical hazards.  
 R408 Interference-Resistant Helper Phage No known significant effects or critical hazards.  
 Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact** : pBR322 Test Insert Digested With EcoR I and Sal I No specific data.  
 XL1-Blue MRF' E.coli Strain No specific data.  
 XLOLR E. coli Strain No specific data.  
 ExAssist Interference-Resistant Helper Phage No specific data.  
 R408 Interference-Resistant Helper Phage No specific data.  
 Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated No specific data.

**Inhalation** : pBR322 Test Insert Digested With EcoR I and Sal I No specific data.  
 XL1-Blue MRF' E.coli Strain No specific data.  
 XLOLR E. coli Strain No specific data.  
 ExAssist Interference-Resistant Helper Phage No specific data.  
 R408 Interference-Resistant Helper Phage No specific data.  
 Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated No specific data.

**Skin contact** : pBR322 Test Insert Digested With EcoR I and Sal I No specific data.  
 XL1-Blue MRF' E.coli Strain No specific data.  
 XLOLR E. coli Strain No specific data.  
 ExAssist Interference-Resistant Helper Phage No specific data.  
 R408 Interference-Resistant Helper Phage No specific data.  
 Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated No specific data.



## SECTION 4: First aid measures

<b>Ingestion</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No specific data.  No specific data.  No specific data. No specific data.  No specific data. No specific data.
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### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain  ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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. 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. 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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<b>Specific treatments</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No specific treatment.  No specific treatment.  No specific treatment. No specific treatment.  No specific treatment. No specific treatment.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
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**SECTION 5: Firefighting measures**

<b>Unsuitable extinguishing media</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	None known. None known. None known. None known. None known.
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**5.2 Special hazards arising from the substance or mixture**

<b>Hazards from the substance or mixture</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain  ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	In a fire or if heated, a pressure increase will occur and the container may burst.  In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
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<b>Hazardous combustion products</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain  XLOLR E. coli Strain  ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No specific data.  Decomposition products may include the following materials:  carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides  Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides  No specific data.  No specific data.  No specific data.
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**5.3 Advice for firefighters**

<b>Special precautions for fire-fighters</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain  XLOLR E. coli Strain	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. Promptly isolate the scene by removing all persons from the
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## SECTION 5: Firefighting measures

<p><b>Special protective equipment for fire-fighters</b></p>	<p>ExAssist Interference-Resistant Helper Phage</p>	<p>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.</p>
	<p>R408 Interference-Resistant Helper Phage</p>	<p>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.</p>
	<p>Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated</p>	<p>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.</p>
	<p>: pBR322 Test Insert Digested With EcoR I and Sal I</p>	<p>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.</p>
	<p>XL1-Blue MRF' E.coli Strain</p>	<p>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.</p>
	<p>XLOLR E. coli Strain</p>	<p>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.</p>
	<p>ExAssist Interference-Resistant Helper Phage</p>	<p>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.</p>
	<p>R408 Interference-Resistant Helper Phage</p>	<p>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.</p>
<p>Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated</p>	<p>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.</p>	

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<p><b>For non-emergency personnel</b></p>	<p>: pBR322 Test Insert Digested With EcoR I and Sal I</p>	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.</p>
	<p>XL1-Blue MRF' E.coli Strain</p>	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.</p>
	<p>XLOLR E. coli Strain</p>	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.</p>

**SECTION 6: Accidental release measures**

**For emergency responders**

ExAssist Interference-Resistant Helper Phage	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 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.
R408 Interference-Resistant Helper Phage	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.
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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.
: pBR322 Test Insert Digested With EcoR I and Sal I	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
XL1-Blue MRF' E.coli Strain	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
XLOLR E. coli Strain	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
ExAssist Interference-Resistant Helper Phage	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
R408 Interference-Resistant Helper Phage	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions**

: pBR322 Test Insert Digested With EcoR I and Sal I	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 MRF' E.coli Strain	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).
XLOLR E. coli Strain	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).
ExAssist Interference-Resistant Helper Phage	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).
R408 Interference-Resistant Helper Phage	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).
Lambda ZAP-CMV XR	Avoid dispersal of spilled material and runoff and contact with

## SECTION 6: Accidental release measures

Vector Digested With Xho I And EcoR I CIAP Treated	soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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### 6.3 Methods and material for containment and cleaning up

<b>Methods for cleaning up</b> : pBR322 Test Insert Digested With EcoR I and Sal I	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 MRF' E.coli Strain	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.
XL0LR E. coli Strain	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.
ExAssist Interference-Resistant Helper Phage	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.
R408 Interference-Resistant Helper Phage	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.
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b> : pBR322 Test Insert Digested With EcoR I and Sal I	Put on appropriate personal protective equipment (see Section 8).
XL1-Blue MRF' E.coli Strain	Put on appropriate personal protective equipment (see Section 8).
XL0LR E. coli Strain	Put on appropriate personal protective equipment (see Section 8).
ExAssist Interference-Resistant Helper Phage	Put on appropriate personal protective equipment (see Section 8).
R408 Interference-Resistant Helper Phage	Put on appropriate personal protective equipment (see Section 8).
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Put on appropriate personal protective equipment (see Section 8).



## SECTION 7: Handling and storage

<b>Advice on general occupational hygiene</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	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 MRF' E.coli Strain	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.
	XLOLR E. coli Strain	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.
	ExAssist Interference-Resistant Helper Phage	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.
	R408 Interference-Resistant Helper Phage	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.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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

<b>Storage</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	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.
	XL1-Blue MRF' E.coli Strain	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.
	XLOLR E. coli Strain	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

**SECTION 7: Handling and storage**

ExAssist Interference-Resistant Helper Phage	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. 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.
R408 Interference-Resistant Helper Phage	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.
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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.

**7.3 Specific end use(s)**

**Recommendations**

: pBR322 Test Insert Digested With EcoR I and Sal I	Industrial applications, Professional applications.
XL1-Blue MRF' E.coli Strain	Industrial applications, Professional applications.
XLOLR E. coli Strain	Industrial applications, Professional applications.
ExAssist Interference-Resistant Helper Phage	Industrial applications, Professional applications.
R408 Interference-Resistant Helper Phage	Industrial applications, Professional applications.
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Industrial applications, Professional applications.

**Industrial sector specific solutions**

: pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
XL1-Blue MRF' E.coli Strain	Not applicable.
XLOLR E. coli Strain	Not applicable.
ExAssist Interference-Resistant Helper Phage	Not applicable.
R408 Interference-Resistant Helper Phage	Not applicable.
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.



## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>XL1-Blue MRF' E.coli Strain</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
<b>XLOLR E. coli Strain</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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 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 8: Exposure controls/personal protection

**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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Liquid.
		XL1-Blue MRF' E.coli Strain	Liquid.
		XLOLR E. coli Strain	Liquid.
		ExAssist Interference- Resistant Helper Phage	Liquid.
		R408 Interference- Resistant Helper Phage	Liquid.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Liquid.
<b>Colour</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Not available.
		XL1-Blue MRF' E.coli Strain	Not available.
		XLOLR E. coli Strain	Not available.
		ExAssist Interference- Resistant Helper Phage	Not available.
		R408 Interference- Resistant Helper Phage	Not available.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available.
<b>Odour</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Not available.
		XL1-Blue MRF' E.coli Strain	Not available.
		XLOLR E. coli Strain	Not available.
		ExAssist Interference- Resistant Helper Phage	Not available.
		R408 Interference- Resistant Helper Phage	Not available.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available.
<b>Odour threshold</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Not available.
		XL1-Blue MRF' E.coli Strain	Not available.
		XLOLR E. coli Strain	Not available.
		ExAssist Interference- Resistant Helper Phage	Not available.
		R408 Interference- Resistant Helper Phage	Not available.
		Lambda ZAP-CMV XR Vector Digested With	Not available.

**SECTION 9: Physical and chemical properties**

	Xho I And EcoR I CIAP Treated	
<b>pH</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	7.5
	XL1-Blue MRF' E.coli Strain	7
	XLOLR E. coli Strain	7
	ExAssist Interference-Resistant Helper Phage	7.5
	R408 Interference-Resistant Helper Phage	7.5
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	7.5
<b>Melting point/freezing point</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	0°C
	XL1-Blue MRF' E.coli Strain	Not available.
	XLOLR E. coli Strain	Not available.
	ExAssist Interference-Resistant Helper Phage	0°C
	R408 Interference-Resistant Helper Phage	0°C
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	0°C
<b>Initial boiling point and boiling range</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	100°C
	XL1-Blue MRF' E.coli Strain	Not available.
	XLOLR E. coli Strain	Not available.
	ExAssist Interference-Resistant Helper Phage	100°C
	R408 Interference-Resistant Helper Phage	100°C
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	100°C
<b>Flash point</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	Not available.
	XL1-Blue MRF' E.coli Strain	Not available.
	XLOLR E. coli Strain	Not available.
	ExAssist Interference-Resistant Helper Phage	Not available.
	R408 Interference-Resistant Helper Phage	Not available.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available.

**SECTION 9: Physical and chemical properties**

<b>Evaporation rate</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Not available.
		XL1-Blue MRF' E.coli Strain	Not available.
		XLOLR E. coli Strain	Not available.
		ExAssist Interference- Resistant Helper Phage	Not available.
		R408 Interference- Resistant Helper Phage	Not available.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available.
<b>Flammability (solid, gas)</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
		XL1-Blue MRF' E.coli Strain	Not applicable.
		XLOLR E. coli Strain	Not applicable.
		ExAssist Interference- Resistant Helper Phage	Not applicable.
		R408 Interference- Resistant Helper Phage	Not applicable.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Not available.
		XL1-Blue MRF' E.coli Strain	Not available.
		XLOLR E. coli Strain	Not available.
		ExAssist Interference- Resistant Helper Phage	Not available.
		R408 Interference- Resistant Helper Phage	Not available.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available.
<b>Vapour pressure</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I	Not available.
		XL1-Blue MRF' E.coli Strain	Not available.
		XLOLR E. coli Strain	Not available.
		ExAssist Interference- Resistant Helper Phage	Not available.
		R408 Interference- Resistant Helper Phage	Not available.
		Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available.

**SECTION 9: Physical and chemical properties**

<b>Vapour density</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available. Not available. Not available. Not available. Not available. Not available.
<b>Relative density</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available. Not available. Not available. Not available. Not available. Not available.
<b>Solubility(ies)</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain  ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water.  Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available. Not available. Not available. Not available. Not available. Not available.

**SECTION 9: Physical and chemical properties**

<b>Auto-ignition temperature</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available. Not available. Not available. Not available. Not available. Not available.
<b>Decomposition temperature</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available. Not available. Not available. Not available. Not available. Not available.
<b>Viscosity</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available. Not available. Not available. Not available. Not available. Not available.
<b>Explosive properties</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not available. Not available. Not available. Not available. Not available. Not available.
<b>Oxidising properties</b>	:	pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference-	Not available. Not available. Not available. Not available.

## SECTION 9: Physical and chemical properties

Resistant Helper Phage R408 Interference-	Not available.
Resistant Helper Phage Lambda ZAP-CMV XR	Not available.
Vector Digested With Xho I And EcoR I CIAP Treated	

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XL0LR E. coli Strain  ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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. 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. 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.
<b>10.2 Chemical stability</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XL0LR E. coli Strain ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	The product is stable.  The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XL0LR E. coli Strain  ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Under normal conditions of storage and use, hazardous reactions will not occur.  Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.



## SECTION 10: Stability and reactivity

<b>10.4 Conditions to avoid</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No specific data.  No specific data.  No specific data. No specific data.  No specific data.  No specific data.
<b>10.5 Incompatible materials</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	May react or be incompatible with oxidising materials.  May react or be incompatible with oxidising materials.  May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.  May react or be incompatible with oxidising materials.  May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain  ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	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. 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. 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. 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>XL1-Blue MRF' E.coli Strain</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
<b>XLOLR E. coli Strain</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

**SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>XL1-Blue MRF' E.coli Strain</b> Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>XL0LR E. coli Strain</b> Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

**Sensitiser**

**Conclusion/Summary** : Not available.

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

Not available.

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

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure**

- : pBR322 Test Insert Digested With EcoR I and Sal I Not available.
- XL1-Blue MRF' E.coli Strain Routes of entry anticipated: Oral, Dermal, Inhalation.
- XL0LR E. coli Strain Routes of entry anticipated: Oral, Dermal, Inhalation.
- ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage Not available.
- Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated Not available.

**Potential acute health effects**

- Inhalation** : pBR322 Test Insert Digested With EcoR I and Sal I No known significant effects or critical hazards.
- XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.
- XL0LR E. coli Strain No known significant effects or critical hazards.
- ExAssist Interference-Resistant Helper Phage R408 Interference-Resistant Helper Phage No known significant effects or critical hazards.
- Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated No known significant effects or critical hazards.
- Ingestion** : pBR322 Test Insert Digested With EcoR I and Sal I No known significant effects or critical hazards.
- XL1-Blue MRF' E.coli Strain No known significant effects or critical hazards.
- XL0LR E. coli Strain No known significant effects or critical hazards.
- ExAssist Interference-Resistant Helper Phage No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

	R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
<b>Skin contact</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	No known significant effects or critical hazards.
	XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards.
	XLOLR E. coli Strain	No known significant effects or critical hazards.
	ExAssist Interference-Resistant Helper Phage	No known significant effects or critical hazards.
	R408 Interference-Resistant Helper Phage	No known significant effects or critical hazards.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.
<b>Eye contact</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	No known significant effects or critical hazards.
	XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards.
	XLOLR E. coli Strain	No known significant effects or critical hazards.
	ExAssist Interference-Resistant Helper Phage	No known significant effects or critical hazards.
	R408 Interference-Resistant Helper Phage	No known significant effects or critical hazards.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.

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

<b>Inhalation</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	No specific data.
	XL1-Blue MRF' E.coli Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	ExAssist Interference-Resistant Helper Phage	No specific data.
	R408 Interference-Resistant Helper Phage	No specific data.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No specific data.
<b>Ingestion</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	No specific data.
	XL1-Blue MRF' E.coli Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	ExAssist Interference-Resistant Helper Phage	No specific data.
	R408 Interference-Resistant Helper Phage	No specific data.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No specific data.

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<b>Skin contact</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	No specific data.
	XL1-Blue MRF' E.coli Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	ExAssist Interference- Resistant Helper Phage	No specific data.
	R408 Interference- Resistant Helper Phage	No specific data.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No specific data.
<b>Eye contact</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	No specific data.
	XL1-Blue MRF' E.coli Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	ExAssist Interference- Resistant Helper Phage	No specific data.
	R408 Interference- Resistant Helper Phage	No specific data.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

<b>General</b>	: pBR322 Test Insert Digested With EcoR I and Sal I	No known significant effects or critical hazards.
	XL1-Blue MRF' E.coli Strain	No known significant effects or critical hazards.
	XLOLR E. coli Strain	No known significant effects or critical hazards.
	ExAssist Interference- Resistant Helper Phage	No known significant effects or critical hazards.
	R408 Interference- Resistant Helper Phage	No known significant effects or critical hazards.
	Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.

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<b>Carcinogenicity</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Mutagenicity</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference- Resistant Helper Phage R408 Interference- Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: pBR322 Test Insert Digested With EcoR I and Sal I XL1-Blue MRF' E.coli Strain XLOLR E. coli Strain ExAssist Interference-	No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards.

## SECTION 11: Toxicological information

Resistant Helper Phage R408 Interference-Resistant Helper Phage Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	No known significant effects or critical hazards.
	No known significant effects or critical hazards.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
XL1-Blue MRF' E.coli Strain Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm3 Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1.56 g/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
XL0LR E. coli Strain Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm3 Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1.56 g/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) : Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

## SECTION 12: Ecological information

**vPvB** : Not applicable.

**12.6 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

### Regulatory information

**ADR/RID / IMDG / IATA** : Not regulated.

**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 Annex II of Marpol and the IBC Code** : Not available.

## 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** :

pBR322 Test Insert Digested With EcoR I and Sal I	Not applicable.
XL1-Blue MRF <sup>+</sup> E.coli Strain	Not applicable.
XL0LR E. coli Strain	Not applicable.
ExAssist Interference-Resistant Helper Phage	Not applicable.
R408 Interference-Resistant Helper Phage	Not applicable.
Lambda ZAP-CMV XR Vector Digested With Xho I And EcoR I CIAP Treated	Not applicable.

#### Other EU regulations

**Europe inventory** : All components are listed or exempted.

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## SECTION 15: Regulatory information

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

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 (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

### International lists

#### National inventory

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.

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

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

<b>Abbreviations and acronyms</b>	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
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### 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

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**SECTION 16: Other information**

<b>XL1-Blue MRF' E.coli Strain</b> H319	Causes serious eye irritation.
<b>XLOLR E. coli Strain</b> H319	Causes serious eye irritation.

[Full text of classifications \[CLP/GHS\]](#)

<b>XL1-Blue MRF' E.coli Strain</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>XLOLR E. coli Strain</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

**Date of issue/ Date of revision** : 29/03/2017

**Date of previous issue** : No previous validation.

**Version** : 1

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