# SAFETY DATA SHEET



pBluescript II KS(+) Phagemid, Part Number 212207

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

1.1 Product identifier

**Product name** : pBluescript II KS(+) Phagemid, Part Number 212207

Part no. (chemical kit) : 212207

Part no. : XL1-Blue MRF' E.coli 200301-81

Strain

pBluescript II KS (+) 212207-51

Phagemid

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

**Identified uses** : Analytical reagent.

> XL1-Blue MRF' E.coli Strain 0.5 ml

pBluescript II KS (+) Phagemid 0.02 ml (20 µg 1 µg/µl )

**Uses advised against** : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH

Hewlett-Packard-Str. 8 76337 Waldbronn

Germany 0800 603 1000

e-mail address of person

: pdl-msds author@agilent.com responsible for this SDS

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

**Product definition** : XL1-Blue MRF' E.coli Mixture Strain

pBluescript II KS (+) Mixture

Phagemid

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

Not classified.

XL1-Blue MRF' E.coli Strain The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

pBluescript II KS (+) Phagemid The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

: XL1-Blue MRF' E.coli Ingredients of unknown Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30% toxicity Strain

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

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## SECTION 2: Hazards identification

Signal word

XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

No signal word. No signal word.

**Hazard statements** 

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** 

XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Not applicable.

Not applicable.

Response

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Not applicable.

Not applicable.

**Storage** 

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Not applicable.

Not applicable.

**Disposal** 

XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Not applicable.

Not applicable.

Supplemental label

elements

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Not applicable.

Not applicable.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances,

XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Not applicable.

Not applicable.

**Special packaging requirements** 

Tactile warning of

mixtures and articles

danger

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Not applicable.

Not applicable.

2.3 Other hazards

**Product meets the** criteria for PBT or vPvB

according to Regulation (EC) No.

1907/2006, Annex XIII

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do

not result in classification : XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

None known.

None known.

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# **SECTION 3: Composition/information on ingredients**

3.1 Substances : XL1-Blue MRF' E.coli Strain pBluescript II KS (+) Phagemid Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
XL1-Blue MRF' E.coli Strain					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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

**Type** 

XL1-Blue MRF' E.coli Strain

[1] Substance with a workplace exposure limit

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

### **SECTION 4: First aid measures**

4.1 Descri	ption of	first aid	measures
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4.1 Description of first aid	measures	
Eye contact	: XL1-Blue MRF' E.coli Strain pBluescript II KS (+) Phagemid	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.
Inhalation	: XL1-Blue MRF' E.coli Strain pBluescript II KS (+) Phagemid	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.
Skin contact	: XL1-Blue MRF' E.coli Strain pBluescript II KS (+) Phagemid	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.
Ingestion	: XL1-Blue MRF' E.coli Strain	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.
	pBluescript II KS (+)	Wash out mouth with water. If material has been swallowed

Wash out mouth with water. If material has been swallowed pBluescript II No (+) Phagemid 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 **Protection of first-aiders** 

Strain

pBluescript II KS (+)

Phagemid

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or

without suitable training.

## 4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

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### SECTION 4: First aid measures

XL1-Blue MRF' E.coli **Eye contact** No known significant effects or critical hazards.

Strain

pBluescript II KS (+) No known significant effects or critical hazards.

Phagemid

Inhalation : XL1-Blue MRF' E.coli No known significant effects or critical hazards.

Strain

pBluescript II KS (+) No known significant effects or critical hazards.

Phagemid

Skin contact : XL1-Blue MRF' E.coli No known significant effects or critical hazards.

Strain

pBluescript II KS (+) No known significant effects or critical hazards.

Phagemid

XL1-Blue MRF' E.coli Ingestion No known significant effects or critical hazards.

Strain

pBluescript II KS (+) No known significant effects or critical hazards.

Phagemid

Over-exposure signs/symptoms

**Eye contact** : XL1-Blue MRF' E.coli No specific data.

Strain

pBluescript II KS (+) No specific data.

Phagemid

Inhalation XL1-Blue MRF' E.coli No specific data.

Strain

pBluescript II KS (+) No specific data.

Phagemid

**Skin contact** : XL1-Blue MRF' E.coli No specific data.

Strain

pBluescript II KS (+) No specific data.

Phagemid

: XL1-Blue MRF' E.coli Ingestion No specific data.

Strain

pBluescript II KS (+)

Phagemid

No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

: XL1-Blue MRF' E.coli Notes to physician Treat symptomatically. Contact poison treatment specialist

Strain

pBluescript II KS (+)

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** XL1-Blue MRF' E.coli No specific treatment.

Strain

pBluescript II KS (+)

No specific treatment.

Phagemid

Phagemid

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

: XL1-Blue MRF' E.coli Suitable extinguishing

media

Strain

Use an extinguishing agent suitable for the surrounding fire.

pBluescript II KS (+) Phagemid

Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

None known.

Phagemid

None known.

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

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# SECTION 5: Firefighting measures

Hazards from the substance or mixture : XL1-Blue MRF' E.coli

In a fire or if heated, a pressure increase will occur and the

Strain pBluescript II KS (+) container may burst.

In a fire or if heated, a pressure increase will occur and the

container may burst.

**Hazardous combustion** products

: XL1-Blue MRF' E.coli

Strain

Phagemid

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides No specific data.

pBluescript II KS (+)

Phagemid

Phagemid

5.3 Advice for firefighters

Special precautions for fire-fighters

: XL1-Blue MRF' E.coli Strain

pBluescript II KS (+)

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.

**Special protective** equipment for firefighters

: XL1-Blue MRF' E.coli Strain

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.

pBluescript II KS (+) Phagemid

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.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: XL1-Blue MRF' E.coli Strain

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.

pBluescript II KS (+) Phagemid

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.

For emergency responders

: 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".

pBluescript II KS (+) Phagemid

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

: XL1-Blue MRF' E.coli Strain

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

pBluescript II KS (+) Phagemid

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

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### SECTION 6: Accidental release measures

(sewers, waterways, soil or air).

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: 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.

pBluescript II KS (+)

Phagemid

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

**Protective measures** 

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Put on appropriate personal protective equipment (see

Section 8).

Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene : 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.

pBluescript II KS (+)

Phagemid

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

**Storage** 

: 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. See Section 10 for incompatible materials

before handling or use.

pBluescript II KS (+) Phagemid

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

before handling or use.

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# SECTION 7: Handling and storage

### 7.3 Specific end use(s)

Recommendations

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Phagemid **Industrial sector specific** 

solutions

XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Not available.

Not available.

Phagemid

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values		
	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)  OELV-8hr: 10 mg/m³ 8 hours. Form: mist		

#### **Biological exposure indices**

No exposure indices known.

### Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

**Appropriate engineering** controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection 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 sideshields.

### **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.

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### SECTION 8: Exposure controls/personal protection

**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.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

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

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

point

**Physical state** : XL1-Blue MRF' E.coli Liquid.

Strain

pBluescript II KS (+) Liquid.

Phagemid

Colour : XL1-Blue MRF' E.coli Not available.

Strain

pBluescript II KS (+) Not available.

Phagemid

XL1-Blue MRF' E.coli **Odour** Not available.

Strain

pBluescript II KS (+) Not available.

Phagemid

**Odour threshold** : XL1-Blue MRF' E.coli Not available.

Strain

pBluescript II KS (+) Not available.

Phagemid

Melting point/freezing XL1-Blue MRF' E.coli Not available.

Strain

pBluescript II KS (+) 0°C

Phagemid

Initial boiling point and XL1-Blue MRF' E.coli Not available.

Strain boiling range

pBluescript II KS (+)

100°C

Phagemid

XL1-Blue MRF' E.coli **Flammability** Not applicable.

Strain

pBluescript II KS (+) Not applicable.

Phagemid

**Upper/lower flammability** or explosive limits

XL1-Blue MRF' E.coli Not available.

Strain

pBluescript II KS (+) Not available.

Phagemid

Flash point

	Closed cup		Open cup	
Ingredient name	°C	Method	°C	Method
XL1-Blue MRF' E.coli Strain				
glycerol	-	-	177	-

pBluescript II KS(+) Phagemid, Part Number 212207

# SECTION 9: Physical and chemical properties

**Auto-ignition** temperature

**Ingredient name** °C Method XL1-Blue MRF' E.coli Strain 370 glycerol

**Decomposition** temperature

XL1-Blue MRF' E.coli

Not available.

Strain

pBluescript II KS (+)

Not available.

Phagemid

: XL1-Blue MRF' E.coli pH

Strain

pBluescript II KS (+)

7.5

7

Phagemid : XL1-Blue MRF' E.coli **Viscosity** 

Strain

Not available.

pBluescript II KS (+)

Phagemid

Not available.

Solubility(ies)

Media	Result
XL1-Blue MRF' E.coli Strain	Calabla
water pBluescript II KS (+) Phagemid	Soluble
water	Soluble

Partition coefficient: noctanol/water

: XL1-Blue MRF' E.coli

Not applicable.

Strain

pBluescript II KS (+)

Not applicable.

Phagemid

	Vapour Pressure at 20°C		Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
XL1-Blue MRF' E. coli Strain						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
pBluescript II KS (+) Phagemid						
water	17.5	2.3	-	92.258	12.3	-

**Evaporation rate** 

XL1-Blue MRF' E.coli

Not available.

Strain

pBluescript II KS (+) Phagemid

Not available.

**Relative density** 

: XL1-Blue MRF' E.coli

Not available.

Strain

pBluescript II KS (+) Phagemid

Not available.

Vapour density

: XL1-Blue MRF' E.coli

Not available.

Strain

pBluescript II KS (+)

Not available.

Phagemid

XL1-Blue MRF' E.coli

Not available.

**Explosive properties** 

Strain

pBluescript II KS (+) Not available.

Phagemid

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# **SECTION 9: Physical and chemical properties**

Oxidising properties : XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

. Phagemid Not available.

I KS (+) Not available.

**Particle characteristics** 

Median particle size : XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

Not applicable.

Not applicable.

#### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity : XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

The product is stable.

The product is stable.

10.3 Possibility of

hazardous reactions

XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

reactions will not occur.
Under normal conditions

Under normal conditions of storage and use, hazardous

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid : XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

No specific data.

No specific data.

10.5 Incompatible

materials

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

10.6 Hazardous

decomposition products

: XL1-Blue MRF' Strain

pBluescript II KS(+) Phagemid Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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**

Not available.

### **Acute toxicity estimates**

N/A

**Irritation/Corrosion** 

Conclusion/Summary : No

: Not available.

**Sensitiser** 

Conclusion/Summary

: Not available.

**Mutagenicity** 

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# SECTION 11: Toxicological information

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

**Conclusion/Summary** : Not available.

**Reproductive toxicity** 

**Conclusion/Summary** : Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available. Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Ingestion

Information on likely

: XL1-Blue MRF' E.coli Strain

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

routes of exposure

pBluescript II KS (+)

Not available.

Phagemid

Potential acute health effects

Inhalation : XL1-Blue MRF' E.coli

Strain

No known significant effects or critical hazards.

pBluescript II KS (+) Phagemid

: XL1-Blue MRF' E.coli

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Strain

pBluescript II KS (+)

No known significant effects or critical hazards.

Phagemid

XL1-Blue MRF' E.coli Skin contact

Strain

No known significant effects or critical hazards.

pBluescript II KS (+)

Phagemid

No known significant effects or critical hazards.

**Eye contact** : XL1-Blue MRF' E.coli

Strain

No known significant effects or critical hazards.

pBluescript II KS (+)

No known significant effects or critical hazards.

Phagemid

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : XL1-Blue MRF' E.coli No specific data.

Strain

pBluescript II KS (+) No specific data.

Phagemid

: XL1-Blue MRF' E.coli Ingestion No specific data.

Strain

pBluescript II KS (+) Phagemid

No specific data.

**Skin contact** : XL1-Blue MRF' E.coli

No specific data.

Strain

pBluescript II KS (+) Phagemid

No specific data.

XL1-Blue MRF' E.coli **Eve contact** 

Strain

No specific data.

pBluescript II KS (+)

No specific data.

Phagemid

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

**Short term exposure** 

effects

**Potential immediate** 

Not available.

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## **SECTION 11: Toxicological information**

**Potential delayed** 

effects

Not available.

Long term exposure

Potential immediate

effects

: Not available.

**Potential delayed** 

effects

: Not available.

### Potential chronic health effects

Conclusion/Summary : Not available.

**General** : XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+) No known significant effects or critical hazards.

Phagemid

: XL1-Blue MRF' E.coli Carcinogenicity No known significant effects or critical hazards.

pBluescript II KS (+)

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Phagemid Mutagenicity

: XL1-Blue MRF' E.coli

Strain

pBluescript II KS (+)

Phagemid

No known significant effects or critical hazards.

No known significant effects or critical hazards.

: XL1-Blue MRF' E.coli Reproductive toxicity

Strain

pBluescript II KS (+)

No known significant effects or critical hazards. No known significant effects or critical hazards.

Phagemid

#### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Conclusion/Summary : Not available.

### 12.2 Persistence and degradability

Not available.

#### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

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# **SECTION 12: Ecological information**

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

**Packaging** 

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

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

### **Additional information**

14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

: Not available.

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# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

: XL1-Blue MRF' E.coli Strain Label Not applicable. pBluescript II KS (+)

Phagemid

Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

**Inventory list** 

**Australia** : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted.

**Eurasian Economic** 

Union **Japan**  : Russian Federation inventory: All components are listed or exempted.

: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.

**New Zealand** : All components are listed or exempted.

**Philippines**  All components are listed or exempted. Republic of Korea : All components are listed or exempted. **Taiwan** All components are listed or exempted.

**Thailand**  Not determined. **Turkey** : Not determined.

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## **SECTION 15: Regulatory information**

United States : All components are active or exempted.Viet Nam : All components are listed or exempted.

15.2 Chemical safety assessment

be required.

: This product contains substances for which Chemical Safety Assessments might still

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

: ATE = Acute Toxicity Estimate

acronyms

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

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

Classification	Justification		
Not classified.			

### Full text of abbreviated H statements

Not applicable.

#### Full text of classifications [CLP/GHS]

Not applicable.

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**Notice to reader** 

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