

# SAFETY DATA SHEET



Gigapack III XL-4 Packaging Extract, Part Number 200207

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

### 1.1 Product identifier

**Product name** : Gigapack III XL-4 Packaging Extract, Part Number 200207  
**Part No. (Kit)** : 200207  
**Part No.** : VCS257 E. coli Strain 200256-51  
Wild-Type Lambda DNA 246203-51  
c1857ind 1 Sam7  
Gigapack III XL - 11 200207-41  
packaging extract

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

Identified uses	
Analytical reagent.	
VCS257 E. coli Strain	1 ml
Wild-Type Lambda DNA c1857ind 1 Sam7	0.005 ml (1.05 µg 0.21 µg/µl)
Gigapack III XL - 11 packaging extract	0.1 ml

### 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

**Product definition** : VCS257 E. coli Strain Mixture  
Wild-Type Lambda DNA Mixture  
c1857ind 1 Sam7  
Gigapack III XL - 11 Mixture  
packaging extract

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

Not classified.

**Ingredients of unknown toxicity** : VCS257 E. coli Strain Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%  
Gigapack III XL - 11 packaging extract Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

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## SECTION 2: Hazards identification

**Ingredients of unknown ecotoxicity** : VCS257 host strain  
c1857 wild-type lambda control DNA  
Gigapack III XL-4 packaging extract Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.5%

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

**Signal word** : VCS257 E. coli Strain No signal word.  
Wild-Type Lambda DNA No signal word.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No signal word.

**Hazard statements** : VCS257 E. coli Strain No known significant effects or critical hazards.  
Wild-Type Lambda DNA No known significant effects or critical hazards.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No known significant effects or critical hazards.

#### Precautionary statements

**Prevention** : VCS257 E. coli Strain Not applicable.  
Wild-Type Lambda DNA Not applicable.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract Not applicable.

**Response** : VCS257 E. coli Strain Not applicable.  
Wild-Type Lambda DNA Not applicable.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract Not applicable.

**Storage** : VCS257 E. coli Strain Not applicable.  
Wild-Type Lambda DNA Not applicable.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract Not applicable.

**Disposal** : VCS257 E. coli Strain Not applicable.  
Wild-Type Lambda DNA Not applicable.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract Not applicable.

**Hazardous ingredients** : VCS257 E. coli Strain Not applicable.

**Supplemental label elements** : VCS257 E. coli Strain Safety data sheet available on request.  
Wild-Type Lambda DNA Not applicable.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : VCS257 E. coli Strain Not applicable.  
Wild-Type Lambda DNA Not applicable.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract Not applicable.

#### Special packaging requirements

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## SECTION 2: Hazards identification

**Tactile warning of danger** : VCS257 E. coli Strain Not applicable.  
 Wild-Type Lambda DNA Not applicable.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 packaging extract Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : VCS257 E. coli Strain None known.  
 Wild-Type Lambda DNA None known.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 packaging extract None known.

## SECTION 3: Composition/information on ingredients

**3.1 Substances** : VCS257 E. coli Strain Mixture  
 Wild-Type Lambda DNA Mixture  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 packaging extract Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
VCS257 E. coli Strain				
Glycerol	REACH #: Annex V 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]
Gigapack III XL - 11 packaging extract				
Sucrose	REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1	≤10	Not classified.  <b>See Section 16 for the full text of the H statements declared above.</b>	[2]

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
- [6] Additional disclosure due to company policy

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** : VCS257 E. coli Strain 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.  
 Wild-Type Lambda DNA 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.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 Immediately flush eyes with plenty of water, occasionally

**Date of issue/Date of revision** : 31/12/2017

## SECTION 4: First aid measures

	packaging extract	lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: VCS257 E. coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Gigapack III XL - 11 packaging extract	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>	: VCS257 E. coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Gigapack III XL - 11 packaging extract	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: VCS257 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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	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.
<b>Protection of first-aiders</b>	: VCS257 E. coli Strain	No action shall be taken involving any personal risk or without suitable training.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No action shall be taken involving any personal risk or without suitable training.
	Gigapack III XL - 11 packaging extract	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

<b>Eye contact</b>	: VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No known significant effects or critical hazards.
	Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards.
<b>Inhalation</b>	: VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No known significant effects or critical hazards.
	Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards.

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**SECTION 4: First aid measures**

**Skin contact** : VCS257 E. coli Strain No known significant effects or critical hazards.  
 Wild-Type Lambda DNA No known significant effects or critical hazards.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 No known significant effects or critical hazards.  
 packaging extract

**Ingestion** : VCS257 E. coli Strain No known significant effects or critical hazards.  
 Wild-Type Lambda DNA No known significant effects or critical hazards.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 No known significant effects or critical hazards.  
 packaging extract

**Over-exposure signs/symptoms**

**Eye contact** : VCS257 E. coli Strain No specific data.  
 Wild-Type Lambda DNA No specific data.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 No specific data.  
 packaging extract

**Inhalation** : VCS257 E. coli Strain No specific data.  
 Wild-Type Lambda DNA No specific data.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 No specific data.  
 packaging extract

**Skin contact** : VCS257 E. coli Strain No specific data.  
 Wild-Type Lambda DNA No specific data.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 No specific data.  
 packaging extract

**Ingestion** : VCS257 E. coli Strain No specific data.  
 Wild-Type Lambda DNA No specific data.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 No specific data.  
 packaging extract

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

**Notes to physician** : VCS257 E. coli Strain Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 Wild-Type Lambda DNA Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 packaging extract

**Specific treatments** : VCS257 E. coli Strain No specific treatment.  
 Wild-Type Lambda DNA No specific treatment.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 No specific treatment.  
 packaging extract

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media** : VCS257 E. coli Strain Use an extinguishing agent suitable for the surrounding fire.  
 Wild-Type Lambda DNA Use an extinguishing agent suitable for the surrounding fire.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 Use an extinguishing agent suitable for the surrounding fire.  
 packaging extract

**Unsuitable extinguishing media** : VCS257 E. coli Strain None known.  
 Wild-Type Lambda DNA None known.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 None known.  
 packaging extract

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## SECTION 5: Firefighting measures

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

<b>Hazards from the substance or mixture</b>	: VCS257 E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
	Wild-Type Lambda DNA c1857ind 1 Sam7	In a fire or if heated, a pressure increase will occur and the container may burst.
	Gigapack III XL - 11 packaging extract	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: VCS257 E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides No specific data.
	Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Decomposition products may include the following materials:  carbon dioxide carbon monoxide

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: VCS257 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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: VCS257 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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	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

<b>For non-emergency personnel</b>	: VCS257 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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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



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## SECTION 6: Accidental release measures

	Gigapack III XL - 11 packaging extract	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 spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: VCS257 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".
	Wild-Type Lambda DNA c1857ind 1 Sam7	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".
	Gigapack III XL - 11 packaging extract	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".
<b>6.2 Environmental precautions</b>	: VCS257 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).
	Wild-Type Lambda DNA c1857ind 1 Sam7	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).
	Gigapack III XL - 11 packaging extract	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).
<b>6.3 Methods and material for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: VCS257 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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	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.
<b>6.4 Reference to other sections</b>	: 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>	: VCS257 E. coli Strain	Put on appropriate personal protective equipment (see Section 8).
	Wild-Type Lambda DNA c1857ind 1 Sam7	Put on appropriate personal protective equipment (see Section 8).
	Gigapack III XL - 11 packaging extract	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: VCS257 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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	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>	: VCS257 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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)



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## SECTION 7: Handling and storage

<b>Recommendations</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not applicable. Not applicable. Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
VCS257 E. coli Strain Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
Gigapack III XL - 11 packaging extract Sucrose	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> STEL: 20 mg/m <sup>3</sup> 15 minutes. TWA: 10 mg/m <sup>3</sup> 8 hours.

**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.

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## SECTION 8: Exposure controls/personal protection

- 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.
- 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

- Physical state** : VCS257 E. coli Strain Liquid.  
Wild-Type Lambda Liquid.  
DNA c1857ind 1 Sam7  
Gigapack III XL - 11 Liquid.  
packaging extract
- Colour** : VCS257 E. coli Strain Not available.  
Wild-Type Lambda Not available.  
DNA c1857ind 1 Sam7  
Gigapack III XL - 11 Not available.  
packaging extract
- Odour** : VCS257 E. coli Strain Not available.  
Wild-Type Lambda Not available.  
DNA c1857ind 1 Sam7  
Gigapack III XL - 11 Not available.  
packaging extract
- Odour threshold** : VCS257 E. coli Strain Not available.  
Wild-Type Lambda Not available.  
DNA c1857ind 1 Sam7  
Gigapack III XL - 11 Not available.  
packaging extract
- pH** : VCS257 E. coli Strain 7  
Wild-Type Lambda 7  
DNA c1857ind 1 Sam7  
Gigapack III XL - 11 8  
packaging extract
- Melting point/freezing point** : VCS257 E. coli Strain Not available.  
Wild-Type Lambda 0°C  
DNA c1857ind 1 Sam7  
Gigapack III XL - 11 Not available.  
packaging extract

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## SECTION 9: Physical and chemical properties

<b>Initial boiling point and boiling range</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. 100°C Not available.
<b>Flash point</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Evaporation rate</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Flammability (solid, gas)</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not applicable. Not applicable. Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Vapour pressure</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Vapour density</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Relative density</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Solubility(ies)</b>	: VCS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Auto-ignition temperature</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.

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## SECTION 9: Physical and chemical properties

<b>Decomposition temperature</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Viscosity</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Explosive properties</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Oxidising properties</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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.
<b>10.4 Conditions to avoid</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

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## SECTION 10: Stability and reactivity

<b>10.6 Hazardous decomposition products</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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.
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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
VCS257 E. coli Strain Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
VCS257 E. coli Strain 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

: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Routes of entry anticipated: Oral, Dermal, Inhalation. Not available. Not available.
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#### Potential acute health effects

<b>Inhalation</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

**Eye contact** : VCS257 E. coli Strain No known significant effects or critical hazards.  
Wild-Type Lambda DNA No known significant effects or critical hazards.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No known significant effects or critical hazards.

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

**Inhalation** : VCS257 E. coli Strain No specific data.  
Wild-Type Lambda DNA No specific data.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No specific data.

**Ingestion** : VCS257 E. coli Strain No specific data.  
Wild-Type Lambda DNA No specific data.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No specific data.

**Skin contact** : VCS257 E. coli Strain No specific data.  
Wild-Type Lambda DNA No specific data.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No specific data.

**Eye contact** : VCS257 E. coli Strain No specific data.  
Wild-Type Lambda DNA No specific data.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract 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

**General** : VCS257 E. coli Strain No known significant effects or critical hazards.  
Wild-Type Lambda DNA No known significant effects or critical hazards.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No known significant effects or critical hazards.

**Carcinogenicity** : VCS257 E. coli Strain No known significant effects or critical hazards.  
Wild-Type Lambda DNA No known significant effects or critical hazards.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No known significant effects or critical hazards.

**Mutagenicity** : VCS257 E. coli Strain No known significant effects or critical hazards.  
Wild-Type Lambda DNA No known significant effects or critical hazards.  
c1857ind 1 Sam7  
Gigapack III XL - 11 packaging extract No known significant effects or critical hazards.



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## SECTION 11: Toxicological information

<b>Teratogenicity</b>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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>	: VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. 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
VCS257 E. coli Strain Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 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<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

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

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## 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** : 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.

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: VCS257 E. coli Strain	Not applicable.
	Wild-Type Lambda DNA	Not applicable.
	c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not applicable.

#### Other EU regulations

##### 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

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## SECTION 15: Regulatory information

### 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.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: At least one component is not listed in DSL but all such components are listed in NDSL.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<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>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: Not determined.

**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.

**Abbreviations and acronyms** : 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

### 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

VCS257 E. coli Strain H319	Causes serious eye irritation.
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### Full text of classifications [CLP/GHS]

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## SECTION 16: Other information

VCS257 E. coli Strain  
Eye Irrit. 2, H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

**Date of issue/ Date of revision** : 31/12/2017

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

**Version** : 1

### Notice to reader

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