

# SAFETY DATA SHEET

## Transpack Packaging Extract

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

#### 1.1 Product identifier

<b>Product name</b>	: Transpack Packaging Extract		
<b>Part no. (chemical kit)</b>	: 200220		
<b>Part no.</b>	: Transpack Red Tube	200220-42	
	: Transpack Blue Tube	200220-41	
	: Big Blue Control Genomic DNA	200220-43	
	: SCS-8 E. coli Strain	200288-81	

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

<b>Identified uses</b>	: Analytical reagent.		
	: Transpack Red Tube	0.010 ml	
	: Transpack Blue Tube	0.072 ml	
	: Big Blue Control Genomic DNA	0.02 ml	
	: SCS-8 E. coli Strain	1 ml	
<b>Uses advised against</b>	: None known.		

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

Agilent Technologies LDA UK Ltd.  
 5500 Lakeside Cheadle Royal Business Park,  
 Cheadle, Cheshire, SK8 3GR  
 United Kingdom  
 Tel: +44 (0) 345 712 5292  
**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

<b>Product definition</b>	: Transpack Red Tube	Mixture
	: Transpack Blue Tube	Mixture
	: Big Blue Control Genomic DNA	Mixture
	: SCS-8 E. coli Strain	Mixture

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

Not classified.

Transpack Red Tube	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Transpack Blue Tube	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Big Blue Control Genomic DNA	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SCS-8 E. coli Strain	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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**SECTION 2: Hazards identification**

<b>Ingredients of unknown toxicity</b>	: Transpack Red Tube	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	Transpack Blue Tube	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	SCS-8 E. coli Strain	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
<b>Ingredients of unknown ecotoxicity</b>	: Transpack Red Tube	Contains 8% of components with unknown hazards to the aquatic environment
	Transpack Blue Tube	Contains 8% of components with unknown hazards to the aquatic environment

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>	: Transpack Red Tube	No signal word.
	Transpack Blue Tube	No signal word.
	Big Blue Control	No signal word.
	Genomic DNA	
	SCS-8 E. coli Strain	No signal word.
<b>Hazard statements</b>	: Transpack Red Tube	No known significant effects or critical hazards.
	Transpack Blue Tube	No known significant effects or critical hazards.
	Big Blue Control	No known significant effects or critical hazards.
	Genomic DNA	
	SCS-8 E. coli Strain	No known significant effects or critical hazards.

Precautionary statements

<b>Prevention</b>	: Transpack Red Tube	Not applicable.
	Transpack Blue Tube	Not applicable.
	Big Blue Control	Not applicable.
	Genomic DNA	
	SCS-8 E. coli Strain	Not applicable.
<b>Response</b>	: Transpack Red Tube	Not applicable.
	Transpack Blue Tube	Not applicable.
	Big Blue Control	Not applicable.
	Genomic DNA	
	SCS-8 E. coli Strain	Not applicable.
<b>Storage</b>	: Transpack Red Tube	Not applicable.
	Transpack Blue Tube	Not applicable.
	Big Blue Control	Not applicable.
	Genomic DNA	
	SCS-8 E. coli Strain	Not applicable.
<b>Disposal</b>	: Transpack Red Tube	Not applicable.
	Transpack Blue Tube	Not applicable.
	Big Blue Control	Not applicable.
	Genomic DNA	
	SCS-8 E. coli Strain	Not applicable.
<b>Supplemental label elements</b>	: Transpack Red Tube	Contains 2-Mercaptoethanol. May produce an allergic reaction. Safety data sheet available on request.
	Transpack Blue Tube	Contains 2-Mercaptoethanol. May produce an allergic reaction. Safety data sheet available on request.
	Big Blue Control	Not applicable.
	Genomic DNA	
	SCS-8 E. coli Strain	Safety data sheet available on request.

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**SECTION 2: Hazards identification**

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Transpack Red Tube Not applicable.  
 Transpack Blue Tube Not applicable.  
 Big Blue Control Not applicable.  
 Genomic DNA  
 SCS-8 E. coli Strain Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Transpack Red Tube Not applicable.  
 Transpack Blue Tube Not applicable.  
 Big Blue Control Not applicable.  
 Genomic DNA  
 SCS-8 E. coli Strain Not applicable.

**Tactile warning of danger** : Transpack Red Tube Not applicable.  
 Transpack Blue Tube Not applicable.  
 Big Blue Control Not applicable.  
 Genomic DNA  
 SCS-8 E. coli Strain Not applicable.

**2.3 Other hazards**

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : Transpack Red Tube This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 Transpack Blue Tube This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 Big Blue Control This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 Genomic DNA This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
 SCS-8 E. coli Strain 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** : Transpack Red Tube None known.  
 Transpack Blue Tube None known.  
 Big Blue Control None known.  
 Genomic DNA  
 SCS-8 E. coli Strain None known.

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

**3.1 Substances** : Transpack Red Tube Mixture  
 Transpack Blue Tube Mixture  
 Big Blue Control Genomic DNA Mixture  
 SCS-8 E. coli Strain Mixture

Product/ingredient name	Identifiers	%	Classification	Type
<b>Transpack Red Tube</b> Sucrose	UK (GB) REACH #: Annex IV REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1	≤10	Not classified.	[1]
<b>Transpack Blue Tube</b> Sucrose	UK (GB) REACH #: Annex IV REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1	≤10	Not classified.	[1]
<b>SCS-8 E. coli Strain</b> Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]

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

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

- Transpack Red Tube [1] Substance with a workplace exposure limit
- Transpack Blue Tube [1] Substance with a workplace exposure limit
- SCS-8 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 Description of first aid measures**

<b>Eye contact</b>	: Transpack Red Tube	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.
	Transpack Blue Tube	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.
	Big Blue Control Genomic 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.
	SCS-8 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.
<b>Inhalation</b>	: Transpack Red Tube	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Transpack Blue Tube	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Big Blue Control Genomic DNA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SCS-8 E. coli Strain	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>	: Transpack Red Tube	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Transpack Blue Tube	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Big Blue Control Genomic DNA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SCS-8 E. coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Transpack Red Tube	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.
	Transpack Blue Tube	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.
	Big Blue Control	Wash out mouth with water. If material has been swallowed

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**SECTION 4: First aid measures**

Genomic DNA	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.
SCS-8 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.
<b>Protection of first-aiders</b> : Transpack Red Tube	No action shall be taken involving any personal risk or without suitable training.
Transpack Blue Tube	No action shall be taken involving any personal risk or without suitable training.
Big Blue Control	No action shall be taken involving any personal risk or without suitable training.
Genomic DNA	No action shall be taken involving any personal risk or without suitable training.
SCS-8 E. coli Strain	No action shall be taken involving any personal risk or without suitable training.

**4.2 Most important symptoms and effects, both acute and delayed**

Over-exposure signs/symptoms

<b>Eye contact</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Inhalation</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Ingestion</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data. No specific data. No specific data. No specific data. No specific data.

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

<b>Notes to physician</b>	: Transpack Red Tube  Transpack Blue Tube  Big Blue Control Genomic DNA SCS-8 E. coli Strain	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.
<b>Specific treatments</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Transpack Red Tube	Use an extinguishing agent suitable for the surrounding fire.
	Transpack Blue Tube	Use an extinguishing agent suitable for the surrounding fire.
	Big Blue Control	Use an extinguishing agent suitable for the surrounding fire.
	Genomic DNA	
	SCS-8 E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Transpack Red Tube	None known.
	Transpack Blue Tube	None known.
	Big Blue Control	None known.
	Genomic DNA	
	SCS-8 E. coli Strain	None known.

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

<b>Hazards from the substance or mixture</b>	: Transpack Red Tube	In a fire or if heated, a pressure increase will occur and the container may burst.
	Transpack Blue Tube	In a fire or if heated, a pressure increase will occur and the container may burst.
	Big Blue Control	In a fire or if heated, a pressure increase will occur and the container may burst.
	Genomic DNA	In a fire or if heated, a pressure increase will occur and the container may burst.
	SCS-8 E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: Transpack Red Tube	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Transpack Blue Tube	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Big Blue Control	No specific data.
	Genomic DNA	
	SCS-8 E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	: Transpack Red Tube	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.
	Transpack Blue Tube	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.
	Big Blue Control	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Genomic DNA	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.
	SCS-8 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.
<b>Special protective equipment for fire-fighters</b>	: Transpack Red Tube	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Transpack Blue Tube	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Big Blue Control	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Genomic DNA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SCS-8 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.



## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	:	Transpack Red Tube	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.
		Transpack Blue Tube	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.
		Big Blue Control Genomic DNA	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.
		SCS-8 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.
<b>For emergency responders</b>	:	Transpack Red Tube	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".
		Transpack Blue Tube	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".
		Big Blue Control Genomic DNA	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".
		SCS-8 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".
<b>6.2 Environmental precautions</b>	:	Transpack Red Tube	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).
		Transpack Blue Tube	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).
		Big Blue Control Genomic DNA	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).
		SCS-8 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).

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

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**SECTION 6: Accidental release measures**

<b>Methods for cleaning up</b>	: Transpack Red Tube	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.
	Transpack Blue Tube	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.
	Big Blue Control Genomic DNA	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.
	SCS-8 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.

**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>	: Transpack Red Tube	Put on appropriate personal protective equipment (see Section 8).
	Transpack Blue Tube	Put on appropriate personal protective equipment (see Section 8).
	Big Blue Control Genomic DNA	Put on appropriate personal protective equipment (see Section 8).
	SCS-8 E. coli Strain	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: Transpack Red Tube	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.
	Transpack Blue Tube	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.
	Big Blue Control Genomic DNA	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.
	SCS-8 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.

**7.2 Conditions for safe storage, including any incompatibilities**



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**SECTION 7: Handling and storage**

<b>Storage</b>	: Transpack Red Tube	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.
	Transpack Blue Tube	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.
	Big Blue Control Genomic DNA	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.
	SCS-8 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.

**7.3 Specific end use(s)**

<b>Recommendations</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not available. Not available. Not available. Not available. Not available.

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

**8.1 Control parameters**

Occupational exposure limits

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

Product/ingredient name	Exposure limit values
<b>Transpack Red Tube</b> Sucrose	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> STEL: 20 mg/m <sup>3</sup> 15 minutes. TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Transpack Blue Tube</b> Sucrose	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> STEL: 20 mg/m <sup>3</sup> 15 minutes. TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>SCS-8 E. coli Strain</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist

**Biological exposure indices**

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to appropriate monitoring standards. 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.

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**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**

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

<b>Physical state</b>	:	Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Liquid. Liquid. Liquid.  Liquid.																				
<b>Colour</b>	:	Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not available. Not available. Not available.  Not available.																				
<b>Odour</b>	:	Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not available. Not available. Not available.  Not available.																				
<b>Odour threshold</b>	:	Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not available. Not available. Not available.  Not available.																				
<b>Melting point/freezing point</b>	:	Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not available. Not available. 0°C  Not available.																				
<b>Initial boiling point and boiling range</b>	:	Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not available. Not available. 100°C  Not available.																				
<b>Flammability</b>	:	Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not applicable. Not applicable. Not applicable.  Not applicable.																				
<b>Upper/lower flammability or explosive limits</b>	:	Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not available. Not available. Not available.  Not available.																				
<b>Flash point</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: left; padding: 5px;"><b>Ingredient name</b></th> <th colspan="2" style="text-align: center; padding: 5px;"><b>Closed cup</b></th> <th colspan="2" style="text-align: center; padding: 5px;"><b>Open cup</b></th> </tr> <tr> <th style="text-align: center; padding: 5px;">°C</th> <th style="text-align: center; padding: 5px;">Method</th> <th style="text-align: center; padding: 5px;">°C</th> <th style="text-align: center; padding: 5px;">Method</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"><b>SCS-8 E. coli Strain</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">glycerol</td> <td style="text-align: center; padding: 5px;">-</td> <td style="text-align: center; padding: 5px;">-</td> <td style="text-align: center; padding: 5px;">177</td> <td style="text-align: center; padding: 5px;">-</td> </tr> </tbody> </table>			<b>Ingredient name</b>	<b>Closed cup</b>		<b>Open cup</b>		°C	Method	°C	Method	<b>SCS-8 E. coli Strain</b>					glycerol	-	-	177	-
<b>Ingredient name</b>	<b>Closed cup</b>		<b>Open cup</b>																				
	°C	Method	°C	Method																			
<b>SCS-8 E. coli Strain</b>																							
glycerol	-	-	177	-																			
<b>Auto-ignition temperature</b>	:																						

**Transpack Packaging Extract**

**SECTION 9: Physical and chemical properties**

Ingredient name	°C	Method
<b>SCS-8 E. coli Strain</b>		
glycerol	370	-

**Decomposition temperature** : Transpack Red Tube Not available.  
 Transpack Blue Tube Not available.  
 Big Blue Control Not available.  
 Genomic DNA  
 SCS-8 E. coli Strain Not available.

**pH** : Transpack Red Tube Not available.  
 Transpack Blue Tube 8  
 Big Blue Control 7.5  
 Genomic DNA  
 SCS-8 E. coli Strain 7

**Viscosity** : Transpack Red Tube Not available.  
 Transpack Blue Tube Not available.  
 Big Blue Control Not available.  
 Genomic DNA  
 SCS-8 E. coli Strain Not available.

Media	Result
<b>Transpack Red Tube</b> water	Soluble
<b>Transpack Blue Tube</b> water	Soluble
<b>Big Blue Control Genomic DNA</b> water	Soluble
<b>SCS-8 E. coli Strain</b> water	Soluble

**Partition coefficient: n-octanol/water** : Transpack Red Tube Not applicable.  
 Transpack Blue Tube Not applicable.  
 Big Blue Control Not applicable.  
 Genomic DNA  
 SCS-8 E. coli Strain Not applicable.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>Transpack Red Tube</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>Transpack Blue Tube</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>Big Blue Control Genomic DNA</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SCS-8 E. coli Strain</b>						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-

Transpack Packaging Extract

**SECTION 9: Physical and chemical properties**

<b>Evaporation rate</b>	:	Transpack Red Tube	Not available.
		Transpack Blue Tube	Not available.
		Big Blue Control	Not available.
		Genomic DNA	
		SCS-8 E. coli Strain	Not available.
<b>Relative density</b>	:	Transpack Red Tube	Not available.
		Transpack Blue Tube	Not available.
		Big Blue Control	Not available.
		Genomic DNA	
		SCS-8 E. coli Strain	Not available.
<b>Vapour density</b>	:	Transpack Red Tube	Not available.
		Transpack Blue Tube	Not available.
		Big Blue Control	Not available.
		Genomic DNA	
		SCS-8 E. coli Strain	Not available.
<b>Explosive properties</b>	:	Transpack Red Tube	Not available.
		Transpack Blue Tube	Not available.
		Big Blue Control	Not available.
		Genomic DNA	
		SCS-8 E. coli Strain	Not available.
<b>Oxidising properties</b>	:	Transpack Red Tube	Not available.
		Transpack Blue Tube	Not available.
		Big Blue Control	Not available.
		Genomic DNA	
		SCS-8 E. coli Strain	Not available.

**Particle characteristics**

<b>Median particle size</b>	:	Transpack Red Tube	Not applicable.
		Transpack Blue Tube	Not applicable.
		Big Blue Control	Not applicable.
		Genomic DNA	
		SCS-8 E. coli Strain	Not applicable.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	:	Transpack Red Tube	No specific test data related to reactivity available for this product or its ingredients.
		Transpack Blue Tube	No specific test data related to reactivity available for this product or its ingredients.
		Big Blue Control	No specific test data related to reactivity available for this product or its ingredients.
		Genomic DNA	No specific test data related to reactivity available for this product or its ingredients.
		SCS-8 E. coli Strain	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	:	Transpack Red Tube	The product is stable.
		Transpack Blue Tube	The product is stable.
		Big Blue Control	The product is stable.
		Genomic DNA	
		SCS-8 E. coli Strain	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	:	Transpack Red Tube	Under normal conditions of storage and use, hazardous reactions will not occur.
		Transpack Blue Tube	Under normal conditions of storage and use, hazardous reactions will not occur.
		Big Blue Control	Under normal conditions of storage and use, hazardous reactions will not occur.
		Genomic DNA	Under normal conditions of storage and use, hazardous reactions will not occur.
		SCS-8 E. coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur.

**Transpack Packaging Extract**

**SECTION 10: Stability and reactivity**

<b>10.4 Conditions to avoid</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	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>	: Transpack Red Tube  Transpack Blue Tube  Big Blue Control Genomic DNA SCS-8 E. coli Strain	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>Transpack Red Tube</b> Sucrose	LD50 Oral	Rat	29700 mg/kg	-
<b>Transpack Blue Tube</b> Sucrose	LD50 Oral	Rat	29700 mg/kg	-
<b>SCS-8 E. coli Strain</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>Transpack Red Tube</b> Sucrose	29700	N/A	N/A	N/A	N/A
<b>Transpack Blue Tube</b> Sucrose	29700	N/A	N/A	N/A	N/A
<b>SCS-8 E. coli Strain</b> Glycerol	12600	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SCS-8 E. coli Strain</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitiser

**Conclusion/Summary** : Not available.

Mutagenicity



**Transpack Packaging Extract**

**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.

**Information on likely routes of exposure**

: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
--	--

**Potential acute health effects**

<b>Inhalation</b> : Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	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>Ingestion</b> : Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	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> : Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	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>Eye contact</b> : Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	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.

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

<b>Inhalation</b> : Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data. No specific data. No specific data. No specific data.
<b>Ingestion</b> : Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</b> : Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No specific data. No specific data. No specific data. No specific data.

Transpack Packaging Extract

**SECTION 11: Toxicological information**

**Eye contact** : Transpack Red Tube No specific data.  
 Transpack Blue Tube No specific data.  
 Big Blue Control No specific data.  
 Genomic DNA  
 SCS-8 E. coli Strain 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**

**Conclusion/Summary** : Not available.

**General** : Transpack Red Tube No known significant effects or critical hazards.  
 Transpack Blue Tube No known significant effects or critical hazards.  
 Big Blue Control No known significant effects or critical hazards.  
 Genomic DNA  
 SCS-8 E. coli Strain No known significant effects or critical hazards.

**Carcinogenicity** : Transpack Red Tube No known significant effects or critical hazards.  
 Transpack Blue Tube No known significant effects or critical hazards.  
 Big Blue Control No known significant effects or critical hazards.  
 Genomic DNA  
 SCS-8 E. coli Strain No known significant effects or critical hazards.

**Mutagenicity** : Transpack Red Tube No known significant effects or critical hazards.  
 Transpack Blue Tube No known significant effects or critical hazards.  
 Big Blue Control No known significant effects or critical hazards.  
 Genomic DNA  
 SCS-8 E. coli Strain No known significant effects or critical hazards.

**Reproductive toxicity** : Transpack Red Tube No known significant effects or critical hazards.  
 Transpack Blue Tube No known significant effects or critical hazards.  
 Big Blue Control No known significant effects or critical hazards.  
 Genomic DNA  
 SCS-8 E. coli Strain No known significant effects or critical hazards.

**Other information** : Transpack Red Tube Adverse symptoms may include the following: May cause skin sensitisation.  
 Transpack Blue Tube Adverse symptoms may include the following: May cause skin sensitisation.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
SCS-8 E. coli Strain Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

Transpack Packaging Extract

**SECTION 12: Ecological information**

Product/ingredient name	Test	Result	Dose	Inoculum
SCS-8 E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

**Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Transpack Red Tube Sucrose	-3.7	-	Low
Transpack Blue Tube Sucrose	-3.7	-	Low
SCS-8 E. coli Strain Glycerol	-1.76	-	Low

**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**

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

**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.

Transpack Packaging Extract

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN 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.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

No listed substance

**Label** : Transpack Red Tube Not applicable.  
 Transpack Blue Tube Not applicable.  
 Big Blue Control Genomic Not applicable.  
 DNA  
 SCS-8 E. coli Strain Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Transpack Packaging Extract

**SECTION 15: Regulatory information**

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

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

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

**United States** : All components are active or exempted.

**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]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications

Not applicable.

**Date of issue/ Date of revision** : 23/05/2024

**Date of previous issue** : 03/11/2020

**Version** : 4

Notice to reader

## SECTION 16: Other information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.