

SAFETY DATA SHEET



Transpack Packaging Extract, Part Number 200221

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

1.1 Product identifier

Product name	: Transpack Packaging Extract, Part Number 200221
Part no. (chemical kit)	: 200221
Part no.	: Transpack Red Tube 200220-42 Transpack Blue Tube 200220-41 SCS-8 E. coli Strain 200288-81 Big Blue Control 200220-43 Genomic DNA

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

Material uses	: Analytical reagent.
	Transpack Red Tube 0.010 ml / Tube
	Transpack Blue Tube 0.072 ml / Tube
	SCS-8 E. coli Strain 1 ml
	Big Blue Control Genomic DNA 0.02 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	: Transpack Red Tube Mixture
	Transpack Blue Tube Mixture
	SCS-8 E. coli Strain Mixture
	Big Blue Control Mixture
	Genomic DNA

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

Not classified.

Ingredients of unknown toxicity	: Transpack Red Tube	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
	Transpack Blue Tube	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
	SCS-8 E. coli Strain	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%

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.

Date of issue/Date of revision : 31/08/2018

SECTION 2: Hazards identification

2.2 Label elements

Signal word	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	No signal word. No signal word. No signal word. No signal word.
Hazard statements	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	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.
<u>Precautionary statements</u>		
Prevention	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Not applicable. Not applicable.
Response	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Not applicable. Not applicable.
Hazardous ingredients	: SCS-8 E. coli Strain	Not applicable.
Supplemental label elements	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Safety data sheet available on request. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Not applicable. Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Not applicable. Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

Other hazards which do not result in classification :

Transpack Red Tube	None known.
Transpack Blue Tube	None known.
SCS-8 E. coli Strain	None known.
Big Blue Control	None known.
Genomic DNA	

SECTION 3: Composition/information on ingredients

3.1 Substances :

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

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Transpack Red Tube Sucrose	REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1	≤10	Not classified.	[2]
Transpack Blue Tube Sucrose	REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1	≤10	Not classified.	[2]
SCS-8 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 See Section 16 for the full text of the H statements declared above.	[1]

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 :

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.
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.
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.

SECTION 4: First aid measures

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

SECTION 4: First aid measures

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

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special precautions for fire-fighters	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control 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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Transpack Red Tube 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. 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. 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

SECTION 5: Firefighting measures

SCS-8 E. coli Strain	<p>basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</p>
Big Blue Control Genomic DNA	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</p>

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Transpack Red Tube	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.</p>
	Transpack Blue Tube	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.</p>
	SCS-8 E. coli Strain	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.</p>
	Big Blue Control Genomic DNA	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.</p>
For emergency responders	: Transpack Red Tube	<p>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".</p>
	Transpack Blue Tube	<p>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".</p>
	SCS-8 E. coli Strain	<p>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".</p>
	Big Blue Control Genomic DNA	<p>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".</p>
6.2 Environmental precautions	: Transpack Red Tube	<p>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).</p>
	Transpack Blue Tube	<p>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</p>

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SECTION 6: Accidental release measures

SCS-8 E. coli Strain	(sewers, waterways, soil or air). 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	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.
		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.
		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.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	:	Transpack Red Tube	Put on appropriate personal protective equipment (see Section 8).
		Transpack Blue Tube	Put on appropriate personal protective equipment (see Section 8).
		SCS-8 E. coli Strain	Put on appropriate personal protective equipment (see Section 8).
		Big Blue Control Genomic DNA	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	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.
		SCS-8 E. coli Strain	Potentially biohazardous material. Eating, drinking and

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SECTION 7: Handling and storage

Big Blue Control
Genomic DNA

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.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage

: 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.

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.

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.

7.3 Specific end use(s)

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SECTION 7: Handling and storage

Recommendations	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. 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
Transpack Red Tube Sucrose	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours.
Transpack Blue Tube Sucrose	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours.
SCS-8 E. coli Strain Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

Hygiene measures : Handle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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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	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Liquid. Liquid. Liquid. Liquid.
Colour	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Odour	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Odour threshold	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
pH	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. 8 7 7.5
Melting point/freezing point	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. 0°C

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. 100°C
Flash point	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Evaporation rate	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Flammability (solid, gas)	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Not applicable. Not applicable.
Upper/lower flammability or explosive limits	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Vapour pressure	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Vapour density	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Relative density	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Solubility(ies)	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.
Auto-ignition temperature	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Not available. Not available.

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SECTION 9: Physical and chemical properties

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

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	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.
		SCS-8 E. coli Strain	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.
10.2 Chemical stability	:	Transpack Red Tube	The product is stable.
		Transpack Blue Tube	The product is stable.
		SCS-8 E. coli Strain	The product is stable.
		Big Blue Control	The product is stable.
		Genomic DNA	
10.3 Possibility of hazardous reactions	:	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.
		SCS-8 E. coli Strain	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.
10.4 Conditions to avoid	:	Transpack Red Tube	No specific data.
		Transpack Blue Tube	No specific data.
		SCS-8 E. coli Strain	No specific data.
		Big Blue Control	No specific data.
		Genomic DNA	

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SECTION 10: Stability and reactivity

10.5 Incompatible materials : Transpack Red Tube May react or be incompatible with oxidising materials.
 Transpack Blue Tube May react or be incompatible with oxidising materials.
 SCS-8 E. coli Strain May react or be incompatible with oxidising materials.
 Big Blue Control May react or be incompatible with oxidising materials.
 Genomic DNA

10.6 Hazardous decomposition products : Transpack Red Tube Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Transpack Blue Tube Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SCS-8 E. coli Strain Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Big Blue Control Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Genomic DNA 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
SCS-8 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
SCS-8 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.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

SECTION 11: Toxicological information

Information on likely routes of exposure	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation. Not available.
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Potential acute health effects

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

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

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SECTION 11: Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

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

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
SCS-8 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.

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

Packaging

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

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

SECTION 14: Transport information

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

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SECTION 15: Regulatory information

None of the components are listed.

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

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

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

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

15.2 Chemical safety assessment

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

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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

SCS-8 E. coli Strain H319	Causes serious eye irritation.
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Full text of classifications [CLP/GHS]

SCS-8 E. coli Strain Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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