

SAFETY DATA SHEET



Transpack Packaging Extract, Part Number 200223

Section 1. Identification

Product identifier : Transpack Packaging Extract, Part Number 200223
Part no. (chemical kit) : 200223
Part no. : Transpack Red Tube 200220-42
 Transpack Blue Tube 200220-41
 SCS-8 E. coli Strain 200288-81
 Big Blue Control Genomic DNA 200220-43

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

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

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%

GHS label elements

Signal word : Transpack Red Tube No signal word.
 Transpack Blue Tube No signal word.
 SCS-8 E. coli Strain No signal word.
 Big Blue Control Genomic DNA No signal word.

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

Precautionary statements

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

Section 2. Hazard(s) identification

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.
Supplemental label elements		
Additional warning phrases	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Not applicable. Not applicable. Not applicable. Not applicable.
Other hazards which do not result in classification	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	None known. None known. None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: Transpack Red Tube Transpack Blue Tube SCS-8 E. coli Strain Big Blue Control Genomic DNA	Mixture Mixture Mixture Mixture
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CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Transpack Red Tube Sucrose	≤10	57-50-1
Transpack Blue Tube Sucrose	≤10	57-50-1
SCS-8 E. coli Strain Glycerol	≥10 - ≤30	56-81-5

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.

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

Section 4. First aid measures

Description of necessary 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.
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.

Section 4. First aid measures

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.
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Most important symptoms/effects, acute and delayed

Potential acute health effects

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.

Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

Notes to physician	: Transpack Red Tube	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Transpack Blue Tube	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SCS-8 E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Big Blue Control Genomic DNA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Transpack Red Tube	No specific treatment.
	Transpack Blue Tube	No specific treatment.
	SCS-8 E. coli Strain	No specific treatment.
	Big Blue Control Genomic DNA	No specific treatment.
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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: Transpack Red Tube	Use an extinguishing agent suitable for the surrounding fire.
	Transpack Blue Tube	Use an extinguishing agent suitable for the surrounding fire.
	SCS-8 E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
	Big Blue Control Genomic DNA	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Transpack Red Tube	None known.
	Transpack Blue Tube	None known.
	SCS-8 E. coli Strain	None known.
	Big Blue Control Genomic DNA	None known.
Specific hazards arising from the chemical	: 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.
	SCS-8 E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
	Big Blue Control Genomic DNA	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: 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

Section 5. Firefighting measures

	SCS-8 E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	Big Blue Control Genomic DNA	No specific data.
Special protective actions for fire-fighters	: 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.
	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.
	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.
Special protective equipment for fire-fighters	: 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.
	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.
	Big Blue Control 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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 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.
	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.

Section 6. Accidental release measures

	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.
For emergency responders :	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".
	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".
	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".
Environmental precautions :	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).
	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).
	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).

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.

Section 6. Accidental release measures

Big Blue Control Genomic DNA

disposal contractor.
 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.

Section 7. Handling and storage

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 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.

Conditions for safe storage, including any incompatibilities

:  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

Section 7. Handling and storage

SCS-8 E. coli Strain

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.

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.

Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
Transpack Red Tube Sucrose	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Transpack Blue Tube Sucrose	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
SCS-8 E. coli Strain Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.

[Appropriate engineering controls](#)

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

[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.

[Individual protection measures](#)

Section 8. Exposure controls and personal protection

- Hygiene measures** : Handle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. 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 | : Transpack Red Tube
Transpack Blue Tube
SCS-8 E. coli Strain
Big Blue Control Genomic DNA | Not available.
Not available.
Not available.
0°C (32°F) |

Section 9. Physical and chemical properties

Boiling point	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	100°C (212°F)
Flash point	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	Not available.
Evaporation rate	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	Not available.
Flammability (solid, gas)	: Transpack Red Tube	Not applicable.
	Transpack Blue Tube	Not applicable.
	SCS-8 E. coli Strain	Not applicable.
	Big Blue Control Genomic DNA	Not applicable.
Lower and upper explosive (flammable) limits	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	Not available.
Vapour pressure	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	Not available.
Vapour density	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	Not available.
Relative density	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	Not available.
Solubility	: Transpack Red Tube	Easily soluble in the following materials: cold water and hot water.
	Transpack Blue Tube	Easily soluble in the following materials: cold water and hot water.
	SCS-8 E. coli Strain	Soluble in the following materials: cold water and hot water.
	Big Blue Control Genomic DNA	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	Not available.
Auto-ignition temperature	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	SCS-8 E. coli Strain	Not available.
	Big Blue Control Genomic DNA	Not available.

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

Section 10. Stability and reactivity

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 Genomic DNA	No specific test data related to reactivity available for this product or its ingredients.
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 Genomic DNA	The product is stable.
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 Genomic DNA	Under normal conditions of storage and use, hazardous reactions will not occur.
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 Genomic DNA	No specific data.
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 Genomic DNA	May react or be incompatible with oxidising materials.
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 Genomic DNA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Transpack Red Tube Sucrose	LD50 Oral	Rat	29700 mg/kg	-
Transpack Blue Tube Sucrose	LD50 Oral	Rat	29700 mg/kg	-
SCS-8 E. coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

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

Sensitisation

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.

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

Potential acute health effects

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

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

Section 11. Toxicological information

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

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

Section 11. Toxicological information

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.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

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

Persistence and degradability

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

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	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

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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.

Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

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Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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.

Section 15. Regulatory information

- Taiwan** : All components are listed or exempted.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : All components are listed or exempted.
- Viet Nam** : Not determined.

Section 16. Any other relevant information

History

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

Date of previous issue : 25/11/2016

Version : 5

Key to abbreviations

- ADG = Australian Dangerous Goods
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NOHSC = National Occupational Health and Safety Commission
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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