

Section 2. Hazards identification

Transpack Red Tube	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 8%
Transpack Blue Tube	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 8%

2.2 GHS label elements

Signal word	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No signal word. No signal word. No signal word. Warning
Hazard statements	: 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. H320 - Causes eye irritation.
Precautionary statements		
Prevention	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not applicable. Not applicable. Not applicable. Not applicable.
Response	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not applicable. Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	None known. None known. None known. None known.

2.3 Other hazards

Hazards not otherwise classified	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	None known. None known. None known. None known.
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Section 3. Composition/information on ingredients

Substance/mixture	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Mixture Mixture Mixture Mixture
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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
SCS-8 E. coli Strain		
Glycerol	≥10 - ≤25	56-81-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

4.1 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.
	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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
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.
	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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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.
	Big Blue Control Genomic DNA	Flush contaminated skin with plenty of water.

Section 4. First aid measures

	SCS-8 E. coli Strain	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: 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 Genomic DNA	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.
	SCS-8 E. coli Strain	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 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. Causes eye irritation.
Inhalation	: 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.
Skin contact	: 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.
Ingestion	: 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.

Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact	: 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. Adverse symptoms may include the following: irritation watering redness
Inhalation	: 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.
Skin contact	: 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.
Ingestion	: 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.

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

Notes to physician	: 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.
Specific treatments	: 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.
Protection of first-aiders	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 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.
	Big Blue Control Genomic DNA	Use an extinguishing agent suitable for the surrounding fire.
	SCS-8 E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Transpack Red Tube	None known.
	Transpack Blue Tube	None known.
	Big Blue Control Genomic DNA	None known.
	SCS-8 E. coli Strain	None known.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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.
	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.
	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.

Section 5. Fire-fighting measures

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.
	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.
	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

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 spilled 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 spilled 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 spilled 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: Transpack Red Tube	If specialized 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 specialized 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 specialized 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 specialized clothing is required to deal with the

Section 6. Accidental release measures

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Transpack Red Tube

Avoid dispersal of spilled 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 spilled 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 spilled 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 spilled 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 materials 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.

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.

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).
		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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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.
		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

:	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 unlabeled 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

Big Blue Control Genomic DNA

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 unlabeled 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

: 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.
 Industrial applications, Professional applications.

Industrial sector specific solutions

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

Not available.
 Not available.
 Not available.
 Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SCS-8 E. coli Strain Glycerol	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction</p> <p>TWA: 10 mg/m³ 8 hours. Form: Total dust</p> <p>OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction</p> <p>TWA: 15 mg/m³ 8 hours. Form: Total dust</p> <p>CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: respirable</p>

Section 8. Exposure controls/personal protection

fraction
TWA: 10 mg/m³ 8 hours. Form: total dust

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

- 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

- 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 and safety characteristics

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

Appearance

- | | | | |
|-----------------------|---|------------------------------|----------------|
| Physical state | : | Transpack Red Tube | Liquid. |
| | : | Transpack Blue Tube | Liquid. |
| | : | Big Blue Control Genomic DNA | Liquid. |
| | : | SCS-8 E. coli Strain | Liquid. |
| Color | : | Transpack Red Tube | Not available. |
| | : | Transpack Blue Tube | Not available. |
| | : | Big Blue Control Genomic DNA | Not available. |
| | : | SCS-8 E. coli Strain | Not available. |

Section 9. Physical and chemical properties and safety characteristics

Odor	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
Odor threshold	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.
pH	: Transpack Red Tube	Not available.
	Transpack Blue Tube	8
	Big Blue Control Genomic DNA	7.5
	SCS-8 E. coli Strain	7
Melting point/freezing point	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	Big Blue Control Genomic DNA	0°C (32°F)
	SCS-8 E. coli Strain	Not available.
Boiling point, initial boiling point, and boiling range	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	Big Blue Control Genomic DNA	100°C (212°F)
	SCS-8 E. coli Strain	Not available.

Flash point	:	Closed cup			Open cup		
	Ingredient name	°C	°F	Method	°C	°F	Method
	SCS-8 E. coli Strain						
	Glycerol	-	-	-	177	350.6	-

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

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

Lower and upper explosion limit/flammability limit	: Transpack Red Tube	Not available.
	Transpack Blue Tube	Not available.
	Big Blue Control Genomic DNA	Not available.
	SCS-8 E. coli Strain	Not available.

Vapor pressure	:	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	Transpack Red Tube						
	water	17.5	2.3	-	92.258	12.3	-
Transpack Blue Tube							
water	17.5	2.3	-	92.258	12.3	-	
Big Blue Control Genomic DNA							

Section 9. Physical and chemical properties and safety characteristics

	water	17.5	2.3	-	92.258	12.3	-
	SCS-8 E. coli Strain						
	water	17.5	2.3	-	92.258	12.3	-
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-

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

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

Solubility(ies)	Media	Result
	Transpack Red Tube water	Soluble
	Transpack Blue Tube water	Soluble
	Big Blue Control Genomic DNA water	Soluble
	SCS-8 E. coli Strain water	Soluble

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

Auto-ignition temperature	Ingredient name	°C	°F	Method
	SCS-8 E. coli Strain			
	Glycerol	370	698	-

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

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

Particle characteristics

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

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.
 Big Blue Control 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.

Section 10. Stability and reactivity

10.2 Chemical stability	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 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.
10.5 Incompatible materials	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: 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
SCS-8 E. coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

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

Sensitization

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

Potential acute health effects

Eye contact	: 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. Causes eye irritation.
Inhalation	: 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.
Skin contact	: 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.
Ingestion	: 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

Section 11. Toxicological information

Eye contact	: 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. Adverse symptoms may include the following: irritation watering redness
Inhalation	: 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.
Skin contact	: 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.
Ingestion	: 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.

Delayed and immediate effects and also 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.
Big Blue Control Genomic DNA No known significant effects or critical hazards.
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 Genomic DNA No known significant effects or critical hazards.
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 Genomic DNA No known significant effects or critical hazards.
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 Genomic DNA No known significant effects or critical hazards.
SCS-8 E. coli Strain No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SCS-8 E. coli Strain SCS-8 E. coli Strain Glycerol	300000.0 12600	N/A N/A	N/A N/A	N/A N/A	N/A N/A

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

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 - <i>Oncorhynchus mykiss</i>	96 hours

12.2 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	-	-

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SCS-8 E. coli Strain Glycerol	-1.76	-	Low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized 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

Section 13. Disposal considerations

of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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 IMO instruments : Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification	: Transpack Red Tube Transpack Blue Tube Big Blue Control Genomic DNA SCS-8 E. coli Strain	Not applicable. Not applicable. Not applicable. EYE IRRITATION - Category 2B
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Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
Transpack Red Tube Sucrose	≤10	COMBUSTIBLE DUSTS
Transpack Blue Tube Sucrose	≤10	COMBUSTIBLE DUSTS
SCS-8 E. coli Strain Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B

State regulations

- Massachusetts** : The following components are listed: SUCROSE DUST; GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN
- Pennsylvania** : The following components are listed: .ALPHA.-D-GLUCOPYRANOSIDE, .BETA.-D-FRUCTOFURANOSYL; 1,2,3-PROPANETRIOL

California Prop. 65

⚠ WARNING: This product can expose you to Tetracycline, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
SCS-8 E. coli Strain Tetracycline	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Japan** : **Japan inventory (CSCL):** Not determined.
Japan inventory (ISHL): 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** : Not determined.

Section 15. Regulatory information

Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
SCS-8 E. coli Strain EYE IRRITATION - Category 2B	Calculation method

History

Date of issue/Date of revision	: 05/23/2024
Date of previous issue	: 11/03/2020
Version	: 7

Key to abbreviations	: 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) N/A = Not available UN = United Nations
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✔ Indicates information that has changed from previously issued version.

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