

SAFETY DATA SHEET



Rapid Excision Kit, Part Number 211204

Section 1. Identification

1.1 Product identifier

Product name : Rapid Excision Kit, Part Number 211204

Part no. (chemical kit) : 211204

Part no. : XPORT E. coli Host Strain 200310-81
 XLOLR E. coli Strain 200304-81
 704 helper phage 200254-81

Validation date : 7/31/2023

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

Identified uses : Analytical reagent.

XPORT E. coli Host Strain 0.5 ml
 XLOLR E. coli Strain 0.5 ml
 704 helper phage 1 ml (≥1.0x10E8 pfu/ml)

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
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Classification of the substance or mixture

XPORT E. coli Host Strain
 H320 EYE IRRITATION - Category 2B

XLOLR E. coli Strain
 H320 EYE IRRITATION - Category 2B

2.2 GHS label elements

Signal word : XPORT E. coli Host Strain Warning
 XLOLR E. coli Strain Warning
 704 helper phage No signal word.

Hazard statements : XPORT E. coli Host Strain H320 - Causes eye irritation.
 XLOLR E. coli Strain H320 - Causes eye irritation.
 704 helper phage No known significant effects or critical hazards.

Section 2. Hazards identification

Precautionary statements

Prevention	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not applicable. Not applicable. Not applicable.
Response	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	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. 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. Not applicable.
Storage	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not applicable. Not applicable. Not applicable.
Disposal	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Not applicable. Not applicable. Not applicable.
Supplemental label elements	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	None known. None known. None known.

2.3 Other hazards

Hazards not otherwise classified	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	None known. None known. None known.
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Section 3. Composition/information on ingredients

Substance/mixture	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Mixture Mixture Mixture
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Ingredient name	%	CAS number
XPORT E. coli Host Strain		
Glycerol	≥10 - ≤25	56-81-5
XLOLR 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	: XPORT E. coli Host 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.
	XLOLR 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.
	704 helper phage	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	: XPORT E. coli Host 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.
	XLOLR 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.
	704 helper phage	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: XPORT E. coli Host Strain	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.
	XLOLR E. coli Strain	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.
	704 helper phage	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	: <input checked="" type="checkbox"/> XPORT E. coli Host 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. 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. 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.
	XLOLR E. coli Strain	
	704 helper phage	

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: <input checked="" type="checkbox"/> XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	Causes eye irritation. Causes eye irritation. No known significant effects or critical hazards.
Inhalation	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	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	: <input checked="" type="checkbox"/> XPORT E. coli Host Strain	Adverse symptoms may include the following: irritation watering redness
	XLOLR E. coli Strain	Adverse symptoms may include the following: irritation watering

Section 4. First aid measures

	704 helper phage	redness No specific data.
Inhalation	: XPORT E. coli Host Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	704 helper phage	No specific data.
Skin contact	: XPORT E. coli Host Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	704 helper phage	No specific data.
Ingestion	: XPORT E. coli Host Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	704 helper phage	No specific data.

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

Notes to physician	: XPORT E. coli Host Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XLOLR E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	704 helper phage	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: XPORT E. coli Host Strain	No specific treatment.
	XLOLR E. coli Strain	No specific treatment.
	704 helper phage	No specific treatment.
Protection of first-aiders	: XPORT E. coli Host Strain	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.
	XLOLR E. coli Strain	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.
	704 helper phage	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: XPORT E. coli Host Strain	Use an extinguishing agent suitable for the surrounding fire.
	XLOLR E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
	704 helper phage	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: XPORT E. coli Host Strain	None known.
	XLOLR E. coli Strain	None known.
	704 helper phage	None known.

5.2 Special hazards arising from the substance or mixture

Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: XPORT E. coli Host Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
	XLOLR E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
	704 helper phage	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: XPORT E. coli Host Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	XLOLR E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	704 helper phage	No specific data.
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: XPORT E. coli Host 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.
	XLOLR 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.
	704 helper phage	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	: XPORT E. coli Host Strain	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	XLOLR 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.
	704 helper phage	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	: XPORT E. coli Host 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.
	XLOLR E. coli Strain	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and

Section 6. Accidental release measures

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.

704 helper phage

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.

For emergency responders : XPORT E. coli Host Strain

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".

XLOLR E. coli Strain

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".

704 helper phage

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".

6.2 Environmental precautions

: XPORT E. coli Host 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).

XLOLR 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).

704 helper phage

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 : XPORT E. coli Host 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.

XLOLR 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.

704 helper phage

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.

Section 6. Accidental release measures

disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: XPORT E. coli Host 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.

XLOLR 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.

704 helper phage

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: XPORT E. coli Host 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.

XLOLR 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.

704 helper phage

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

: XPORT E. coli Host 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.

Section 7. Handling and storage

XLOLR 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.

704 helper phage

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

: XPORT E. coli Host Strain
XLOLR E. coli Strain
704 helper phage

Industrial applications, Professional applications.
Industrial applications, Professional applications.
Industrial applications, Professional applications.

Industrial sector specific solutions

: XPORT E. coli Host Strain
XLOLR E. coli Strain
704 helper phage

Not available.
Not available.
Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> XPORT E. coli Host Strain Glycerol	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction 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 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 fraction TWA: 10 mg/m³ 8 hours. Form: total dust</p>
XLOLR E. coli Strain Glycerol	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction 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</p>

Section 8. Exposure controls/personal protection

fraction
 TWA: 15 mg/m³ 8 hours. Form: Total dust
CAL OSHA PEL (United States, 5/2018).
 TWA: 5 mg/m³ 8 hours. Form: respirable
 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: chemical splash goggles.

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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	: XPORT E. coli Host Strain	Liquid.
	XLOLR E. coli Strain	Liquid.
	704 helper phage	Liquid.
Color	: XPORT E. coli Host Strain	Not available.
	XLOLR E. coli Strain	Not available.
	704 helper phage	Not available.
Odor	: XPORT E. coli Host Strain	Not available.
	XLOLR E. coli Strain	Not available.
	704 helper phage	Not available.
Odor threshold	: XPORT E. coli Host Strain	Not available.
	XLOLR E. coli Strain	Not available.
	704 helper phage	Not available.
pH	: XPORT E. coli Host Strain	7
	XLOLR E. coli Strain	7
	704 helper phage	7.5
Melting point/freezing point	: XPORT E. coli Host Strain	Not available.
	XLOLR E. coli Strain	Not available.
	704 helper phage	0°C (32°F)
Boiling point, initial boiling point, and boiling range	: XPORT E. coli Host Strain	Not available.
	XLOLR E. coli Strain	Not available.
	704 helper phage	100°C (212°F)

Flash point

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<input checked="" type="checkbox"/> XPORT E. coli Host Strain						
Glycerol	-	-	-	177	350.6	-
XLOLR E. coli Strain						
Glycerol	-	-	-	177	350.6	-

Evaporation rate	: XPORT E. coli Host Strain	Not available.
	XLOLR E. coli Strain	Not available.
	704 helper phage	Not available.

Flammability	: XPORT E. coli Host Strain	Not applicable.
	XLOLR E. coli Strain	Not applicable.
	704 helper phage	Not applicable.

Lower and upper explosion limit/flammability limit	: XPORT E. coli Host Strain	Not available.
	XLOLR E. coli Strain	Not available.
	704 helper phage	Not available.

Vapor pressure

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method

Section 9. Physical and chemical properties and safety characteristics

XPORT E. coli Host Strain						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
XLOLR E. coli Strain						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
704 helper phage						
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density : XPORT E. coli Host Strain Not available.
 XLOLR E. coli Strain Not available.
 704 helper phage Not available.

Relative density : XPORT E. coli Host Strain Not available.
 XLOLR E. coli Strain Not available.
 704 helper phage Not available.

Media	Result
XPORT E. coli Host Strain	
water	Soluble
XLOLR E. coli Strain	
water	Soluble
704 helper phage	
water	Soluble

Partition coefficient: n-octanol/water : XPORT E. coli Host Strain Not applicable.
 XLOLR E. coli Strain Not applicable.
 704 helper phage Not applicable.

Ingredient name	°C	°F	Method
XPORT E. coli Host Strain			
Glycerol	370	698	-
XLOLR E. coli Strain			
Glycerol	370	698	-

Decomposition temperature : XPORT E. coli Host Strain Not available.
 XLOLR E. coli Strain Not available.
 704 helper phage Not available.

Viscosity : XPORT E. coli Host Strain Not available.
 XLOLR E. coli Strain Not available.
 704 helper phage Not available.

Particle characteristics

Median particle size : XPORT E. coli Host Strain Not applicable.
 XLOLR E. coli Strain Not applicable.
 704 helper phage Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	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	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No specific data. No specific data. No specific data.
10.5 Incompatible materials	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	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	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	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
XPORT E. coli Host Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-
XLOLR E. coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
XPORT E. coli Host Strain Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
XLOLR 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 : XPORT E. coli Host Strain Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
 XLOLR E. coli Strain Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
 704 helper phage Not available.

Potential acute health effects

Eye contact : XPORT E. coli Host Strain Causes eye irritation.
 XLOLR E. coli Strain Causes eye irritation.
 704 helper phage No known significant effects or critical hazards.

Inhalation : XPORT E. coli Host Strain No known significant effects or critical hazards.
 XLOLR E. coli Strain No known significant effects or critical hazards.
 704 helper phage No known significant effects or critical hazards.

Skin contact : XPORT E. coli Host Strain No known significant effects or critical hazards.
 XLOLR E. coli Strain No known significant effects or critical hazards.
 704 helper phage No known significant effects or critical hazards.

Ingestion : XPORT E. coli Host Strain No known significant effects or critical hazards.
 XLOLR E. coli Strain No known significant effects or critical hazards.
 704 helper phage No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: <input checked="" type="checkbox"/> PORT E. coli Host Strain	Adverse symptoms may include the following: irritation watering redness
	XLOLR E. coli Strain	Adverse symptoms may include the following: irritation watering redness
	704 helper phage	No specific data.
Inhalation	: XPORT E. coli Host Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	704 helper phage	No specific data.
Skin contact	: XPORT E. coli Host Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	704 helper phage	No specific data.
Ingestion	: XPORT E. coli Host Strain	No specific data.
	XLOLR E. coli Strain	No specific data.
	704 helper phage	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	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: XPORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: <input checked="" type="checkbox"/> PORT E. coli Host Strain XLOLR E. coli Strain 704 helper phage	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

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<input checked="" type="checkbox"/> PORT E. coli Host Strain Glycerol	12600	N/A	N/A	N/A	N/A
XLOLR E. coli Strain XLOLR E. coli Strain Glycerol	300000.0 12600	N/A N/A	N/A N/A	N/A N/A	N/A N/A

Section 11. Toxicological information

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
XPORT E. coli Host Strain Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
XLOLR 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
XPORT E. coli Host Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
XLOLR E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
XPORT E. coli Host Strain Glycerol	-1.76	-	Low
XLOLR 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. Care should be taken when handling emptied containers that have not been

Section 13. Disposal considerations

cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal 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 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

PORT E. coli Host Strain
XLCLR E. coli Strain
704 helper phage

EYE IRRITATION - Category 2B
EYE IRRITATION - Category 2B
Not applicable.

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
<input checked="" type="checkbox"/> EXPORT E. coli Host Strain Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B
<input checked="" type="checkbox"/> XLOLR E. coli Strain Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B

State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN
- Pennsylvania** : The following components are listed: 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
XLOLR 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** : All components are listed or exempted.
- Japan** : **Japan inventory (CSCL):** All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
- New Zealand** : All components are listed or exempted.
- Philippines** : Not determined.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.
- Thailand** : Not determined.
- 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
X PORT E. coli Host Strain EYE IRRITATION - Category 2B	Calculation method
X LOLR E. coli Strain EYE IRRITATION - Category 2B	Calculation method

[History](#)

Date of issue/Date of revision : 07/31/2023

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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

📌 Indicates information that has changed from previously issued version.

[Notice to reader](#)

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