

SAFETY DATA SHEET

SureVector E. coli C-terminal Expansion Kit, 15 rxn, Part Number G7515B

Section 1. Identification

Product identifier	: SureVector E. coli C-terminal Expansion Kit, 15 rxn, Part Number G7515B	
Part no. (chemical kit)	: G7515B	
Part no.	SureVector T7 E. coli Promoter	5190-8104
	SureVector Tac E. coli Promoter	5190-8606
	SureVector Rhamnose E. coli Promoter	5190-8607
	SureVector HA Expression Tag C-Term	5190-8614
	SureVector c-Myc Expression Tag C-Term	5190-8615
	SureVector HIS6 Expression Tag (C-term)	5190-8616
	SureVector CBP Expression Tag (C-Term)	5190-8617
	SureVector SBP Expression Tag (C-term)	5190-8618
	SureVector Thioredoxin Expression Tag (C-Term)	5190-8619
	SureVector LacZ E. coli Control (C-term)	5190-8620

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

Identified uses	: <input checked="" type="checkbox"/> Analytical reagent.	
	<input checked="" type="checkbox"/> SureVector T7 E. coli Promoter	0.03 ml (15 reactions)
	SureVector Tac E. coli Promoter	0.03 ml (15 reactions)
	SureVector Rhamnose E. coli Promoter	0.03 ml (15 reactions)
	SureVector HA Expression Tag C-Term	0.03 ml (15 reactions)
	SureVector c-Myc Expression Tag C-Term	0.03 ml (15 reactions)
	SureVector HIS6 Expression Tag (C-term)	0.03 ml (15 reactions)
	SureVector CBP Expression Tag (C-Term)	0.03 ml (15 reactions)
	SureVector SBP Expression Tag (C-term)	0.03 ml (15 reactions)
	SureVector Thioredoxin Expression Tag (C-Term)	0.03 ml (15 reactions)
	SureVector LacZ E. coli Control (C-term)	0.03 ml (15 reactions)

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

Emergency telephone number (with hours of operation) : CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word	SureVector T7 E. coli Promoter	No signal word.
	SureVector Tac E. coli Promoter	No signal word.
	SureVector Rhamnose E. coli Promoter	No signal word.
	SureVector HA Expression Tag C-Term	No signal word.

Section 2. Hazard identification

	SureVector c-Myc Expression Tag C-Term	No signal word.
	SureVector HIS6 Expression Tag (C-term)	No signal word.
	SureVector CBP Expression Tag (C-Term)	No signal word.
	SureVector SBP Expression Tag (C-term)	No signal word.
	SureVector Thioredoxin Expression Tag (C-Term)	No signal word.
	SureVector LacZ E. coli Control (C-term)	No signal word.
Hazard statements	: SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
	SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
	SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: SureVector T7 E. coli Promoter	Not applicable.
	SureVector Tac E. coli Promoter	Not applicable.
	SureVector Rhamnose E. coli Promoter	Not applicable.
	SureVector HA Expression Tag C-Term	Not applicable.
	SureVector c-Myc Expression Tag C-Term	Not applicable.
	SureVector HIS6 Expression Tag (C-term)	Not applicable.
	SureVector CBP Expression Tag (C-Term)	Not applicable.
	SureVector SBP Expression Tag (C-term)	Not applicable.
	SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
	SureVector LacZ E. coli Control (C-term)	Not applicable.

Section 2. Hazard identification

Response	:	SureVector T7 E. coli Promoter	Not applicable.
		SureVector Tac E. coli Promoter	Not applicable.
		SureVector Rhamnose E. coli Promoter	Not applicable.
		SureVector HA Expression Tag C-Term	Not applicable.
		SureVector c-Myc Expression Tag C-Term	Not applicable.
		SureVector HIS6 Expression Tag (C-term)	Not applicable.
		SureVector CBP Expression Tag (C-Term)	Not applicable.
		SureVector SBP Expression Tag (C-term)	Not applicable.
		SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
		SureVector LacZ E. coli Control (C-term)	Not applicable.
Storage	:	SureVector T7 E. coli Promoter	Not applicable.
		SureVector Tac E. coli Promoter	Not applicable.
		SureVector Rhamnose E. coli Promoter	Not applicable.
		SureVector HA Expression Tag C-Term	Not applicable.
		SureVector c-Myc Expression Tag C-Term	Not applicable.
		SureVector HIS6 Expression Tag (C-term)	Not applicable.
		SureVector CBP Expression Tag (C-Term)	Not applicable.
		SureVector SBP Expression Tag (C-term)	Not applicable.
		SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
		SureVector LacZ E. coli Control (C-term)	Not applicable.
Disposal	:	SureVector T7 E. coli Promoter	Not applicable.
		SureVector Tac E. coli Promoter	Not applicable.
		SureVector Rhamnose E. coli Promoter	Not applicable.
		SureVector HA Expression Tag C-Term	Not applicable.
		SureVector c-Myc Expression Tag C-Term	Not applicable.
		SureVector HIS6 Expression Tag (C-term)	Not applicable.
		SureVector CBP Expression Tag (C-Term)	Not applicable.
		SureVector SBP Expression Tag (C-term)	Not applicable.
		SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
		SureVector LacZ E. coli	Not applicable.

Section 2. Hazard identification

	Control (C-term)	
Supplemental label elements	: SureVector T7 E. coli Promoter	None known.
	SureVector Tac E. coli Promoter	None known.
	SureVector Rhamnose E. coli Promoter	None known.
	SureVector HA Expression Tag C-Term	None known.
	SureVector c-Myc Expression Tag C-Term	None known.
	SureVector HIS6 Expression Tag (C-term)	None known.
	SureVector CBP Expression Tag (C-Term)	None known.
	SureVector SBP Expression Tag (C-term)	None known.
	SureVector Thioredoxin Expression Tag (C-Term)	None known.
	SureVector LacZ E. coli Control (C-term)	None known.
Other hazards which do not result in classification	: SureVector T7 E. coli Promoter	None known.
	SureVector Tac E. coli Promoter	None known.
	SureVector Rhamnose E. coli Promoter	None known.
	SureVector HA Expression Tag C-Term	None known.
	SureVector c-Myc Expression Tag C-Term	None known.
	SureVector HIS6 Expression Tag (C-term)	None known.
	SureVector CBP Expression Tag (C-Term)	None known.
	SureVector SBP Expression Tag (C-term)	None known.
	SureVector Thioredoxin Expression Tag (C-Term)	None known.
	SureVector LacZ E. coli Control (C-term)	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: SureVector T7 E. coli Promoter	Mixture
	SureVector Tac E. coli Promoter	Mixture
	SureVector Rhamnose E. coli Promoter	Mixture
	SureVector HA Expression Tag C-Term	Mixture
	SureVector c-Myc Expression Tag C-Term	Mixture
	SureVector HIS6 Expression Tag (C-term)	Mixture
	SureVector CBP Expression Tag (C-Term)	Mixture
	SureVector SBP Expression Tag (C-term)	Mixture

Section 3. Composition/information on ingredients

SureVector Thioredoxin Expression Tag (C-Term)	Mixture
SureVector LacZ E. coli Control (C-term)	Mixture

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact

SureVector T7 E. coli Promoter	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.
SureVector Tac E. coli Promoter	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.
SureVector Rhamnose E. coli Promoter	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.
SureVector HA Expression Tag C-Term	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.
SureVector c-Myc Expression Tag C-Term	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.
SureVector HIS6 Expression Tag (C-term)	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.
SureVector CBP Expression Tag (C-Term)	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.
SureVector SBP Expression Tag (C-term)	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.
SureVector Thioredoxin Expression Tag (C-Term)	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.
SureVector LacZ E. coli Control (C-term)	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

SureVector T7 E. coli Promoter	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector Tac E. coli Promoter	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector Rhamnose E. coli Promoter	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector HA Expression	Remove victim to fresh air and keep at rest in a

Section 4. First-aid measures

	Tag C-Term	position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector c-Myc Expression Tag C-Term	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector HIS6 Expression Tag (C-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector CBP Expression Tag (C-Term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector SBP Expression Tag (C-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector Thioredoxin Expression Tag (C-Term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector LacZ E. coli Control (C-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: SureVector T7 E. coli Promoter	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector Tac E. coli Promoter	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector Rhamnose E. coli Promoter	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector HA Expression Tag C-Term	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector c-Myc Expression Tag C-Term	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector HIS6 Expression Tag (C-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector CBP Expression Tag (C-Term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector SBP Expression Tag (C-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector Thioredoxin Expression Tag (C-Term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector LacZ E. coli Control (C-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: SureVector T7 E. coli Promoter	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.
	SureVector Tac E. coli Promoter	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.

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SureVector Rhamnose E. coli Promoter	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.
SureVector HA Expression Tag C-Term	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.
SureVector c-Myc Expression Tag C-Term	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.
SureVector HIS6 Expression Tag (C-term)	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.
SureVector CBP Expression Tag (C-Term)	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.
SureVector SBP Expression Tag (C-term)	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.
SureVector Thioredoxin Expression Tag (C-Term)	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.
SureVector LacZ E. coli Control (C-term)	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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
	SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
	SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.

Section 4. First-aid measures

	SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
Inhalation	: SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
	SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
	SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
Skin contact	: SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
	SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
	SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
Ingestion	: SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
	SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
	SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.

Section 4. First-aid measures

Tag (C-term)	
SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: SureVector T7 E. coli Promoter	No specific data.
	SureVector Tac E. coli Promoter	No specific data.
	SureVector Rhamnose E. coli Promoter	No specific data.
	SureVector HA Expression Tag C-Term	No specific data.
	SureVector c-Myc Expression Tag C-Term	No specific data.
	SureVector HIS6 Expression Tag (C-term)	No specific data.
	SureVector CBP Expression Tag (C-Term)	No specific data.
	SureVector SBP Expression Tag (C-term)	No specific data.
	SureVector Thioredoxin Expression Tag (C-Term)	No specific data.
	SureVector LacZ E. coli Control (C-term)	No specific data.
Inhalation	: SureVector T7 E. coli Promoter	No specific data.
	SureVector Tac E. coli Promoter	No specific data.
	SureVector Rhamnose E. coli Promoter	No specific data.
	SureVector HA Expression Tag C-Term	No specific data.
	SureVector c-Myc Expression Tag C-Term	No specific data.
	SureVector HIS6 Expression Tag (C-term)	No specific data.
	SureVector CBP Expression Tag (C-Term)	No specific data.
	SureVector SBP Expression Tag (C-term)	No specific data.
	SureVector Thioredoxin Expression Tag (C-Term)	No specific data.
	SureVector LacZ E. coli Control (C-term)	No specific data.
Skin contact	: SureVector T7 E. coli Promoter	No specific data.
	SureVector Tac E. coli Promoter	No specific data.
	SureVector Rhamnose E. coli Promoter	No specific data.
	SureVector HA Expression Tag C-Term	No specific data.
	SureVector c-Myc Expression Tag C-Term	No specific data.
	SureVector HIS6 Expression Tag (C-term)	No specific data.
	SureVector CBP Expression	No specific data.

Section 4. First-aid measures

	Tag (C-Term)	
	SureVector SBP Expression	No specific data.
	Tag (C-term)	
	SureVector Thioredoxin	No specific data.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	No specific data.
	Control (C-term)	
Ingestion	: SureVector T7 E. coli	No specific data.
	Promoter	
	SureVector Tac E. coli	No specific data.
	Promoter	
	SureVector Rhamnose E.	No specific data.
	coli Promoter	
	SureVector HA Expression	No specific data.
	Tag C-Term	
	SureVector c-Myc	No specific data.
	Expression Tag C-Term	
	SureVector HIS6 Expression	No specific data.
	Tag (C-term)	
	SureVector CBP Expression	No specific data.
	Tag (C-Term)	
	SureVector SBP Expression	No specific data.
	Tag (C-term)	
	SureVector Thioredoxin	No specific data.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	No specific data.
	Control (C-term)	

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

Notes to physician	: SureVector T7 E. coli	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Promoter	
	SureVector Tac E. coli	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Promoter	
	SureVector Rhamnose E.	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	coli Promoter	
	SureVector HA Expression	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Tag C-Term	
	SureVector c-Myc	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Expression Tag C-Term	
	SureVector HIS6 Expression	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Tag (C-term)	
	SureVector CBP Expression	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Tag (C-Term)	
	SureVector SBP Expression	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Tag (C-term)	
	SureVector Thioredoxin	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Control (C-term)	

Section 4. First-aid measures

Specific treatments	: SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector HA Expression Tag C-Term SureVector c-Myc Expression Tag C-Term SureVector HIS6 Expression Tag (C-term) SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-term) SureVector Thioredoxin Expression Tag (C-Term) SureVector LacZ E. coli Control (C-term)	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector HA Expression Tag C-Term SureVector c-Myc Expression Tag C-Term SureVector HIS6 Expression Tag (C-term) SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-term) SureVector Thioredoxin Expression Tag (C-Term) SureVector LacZ E. coli Control (C-term)	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. 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. 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector HA Expression Tag C-Term SureVector c-Myc Expression Tag C-Term SureVector HIS6 Expression Tag (C-term) SureVector CBP Expression	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
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Section 5. Fire-fighting measures

	Tag (C-Term)	surrounding fire.
	SureVector SBP Expression Tag (C-term)	Use an extinguishing agent suitable for the surrounding fire.
	SureVector Thioredoxin Expression Tag (C-Term)	Use an extinguishing agent suitable for the surrounding fire.
	SureVector LacZ E. coli Control (C-term)	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: SureVector T7 E. coli Promoter	None known.
	SureVector Tac E. coli Promoter	None known.
	SureVector Rhamnose E. coli Promoter	None known.
	SureVector HA Expression Tag C-Term	None known.
	SureVector c-Myc Expression Tag C-Term	None known.
	SureVector HIS6 Expression Tag (C-term)	None known.
	SureVector CBP Expression Tag (C-Term)	None known.
	SureVector SBP Expression Tag (C-term)	None known.
	SureVector Thioredoxin Expression Tag (C-Term)	None known.
	SureVector LacZ E. coli Control (C-term)	None known.
Specific hazards arising from the chemical	: SureVector T7 E. coli Promoter	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector Tac E. coli Promoter	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector Rhamnose E. coli Promoter	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector HA Expression Tag C-Term	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector c-Myc Expression Tag C-Term	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector HIS6 Expression Tag (C-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector CBP Expression Tag (C-Term)	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector SBP Expression Tag (C-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector Thioredoxin Expression Tag (C-Term)	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector LacZ E. coli Control (C-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: SureVector T7 E. coli Promoter	No specific data.
	SureVector Tac E. coli Promoter	No specific data.
	SureVector Rhamnose E. coli Promoter	No specific data.
	SureVector HA Expression Tag C-Term	No specific data.
	SureVector c-Myc Expression Tag C-Term	No specific data.
	SureVector HIS6 Expression	No specific data.

Section 5. Fire-fighting measures

	Tag (C-term)	
	SureVector CBP Expression Tag (C-Term)	No specific data.
	SureVector SBP Expression Tag (C-term)	No specific data.
	SureVector Thioredoxin Expression Tag (C-Term)	No specific data.
	SureVector LacZ E. coli Control (C-term)	No specific data.
Special protective actions for fire-fighters	: SureVector T7 E. coli Promoter	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.
	SureVector Tac E. coli Promoter	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.
	SureVector Rhamnose E. coli Promoter	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.
	SureVector HA Expression Tag C-Term	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.
	SureVector c-Myc Expression Tag C-Term	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.
	SureVector HIS6 Expression Tag (C-term)	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.
	SureVector CBP Expression Tag (C-Term)	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.
	SureVector SBP Expression Tag (C-term)	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.
	SureVector Thioredoxin Expression Tag (C-Term)	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.
	SureVector LacZ E. coli Control (C-term)	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	: SureVector T7 E. coli Promoter	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureVector Tac E. coli Promoter	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureVector Rhamnose E. coli Promoter	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

Section 5. Fire-fighting measures

SureVector HA Expression Tag C-Term	(SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureVector c-Myc Expression Tag C-Term	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureVector HIS6 Expression Tag (C-term)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureVector CBP Expression Tag (C-Term)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureVector SBP Expression Tag (C-term)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureVector Thioredoxin Expression Tag (C-Term)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureVector LacZ E. coli Control (C-term)	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	: SureVector T7 E. coli Promoter	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.
	SureVector Tac E. coli Promoter	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.
	SureVector Rhamnose E. coli Promoter	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.
	SureVector HA Expression Tag C-Term	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.
	SureVector c-Myc Expression Tag C-Term	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

Section 6. Accidental release measures

SureVector HIS6 Expression Tag (C-term)	areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureVector CBP Expression Tag (C-Term)	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.
SureVector SBP Expression Tag (C-term)	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.
SureVector Thioredoxin Expression Tag (C-Term)	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.
SureVector LacZ E. coli Control (C-term)	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 : SureVector T7 E. coli Promoter	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".
SureVector Tac E. coli Promoter	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".
SureVector Rhamnose E. coli Promoter	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".
SureVector HA Expression Tag C-Term	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".
SureVector c-Myc Expression Tag C-Term	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".
SureVector HIS6 Expression Tag (C-term)	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".
SureVector CBP Expression Tag (C-Term)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on

Section 6. Accidental release measures

SureVector SBP Expression Tag (C-term)	suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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".
SureVector Thioredoxin Expression Tag (C-Term)	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".
SureVector LacZ E. coli Control (C-term)	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".
Environmental precautions : SureVector T7 E. coli Promoter	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).
SureVector Tac E. coli Promoter	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).
SureVector Rhamnose E. coli Promoter	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).
SureVector HA Expression Tag C-Term	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).
SureVector c-Myc Expression Tag C-Term	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).
SureVector HIS6 Expression Tag (C-term)	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).
SureVector CBP Expression Tag (C-Term)	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).
SureVector SBP Expression Tag (C-term)	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).
SureVector Thioredoxin Expression Tag (C-Term)	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).

Section 6. Accidental release measures

SureVector LacZ E. coli Control (C-term)	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).
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Methods and materials for containment and cleaning up

Methods for cleaning up	: SureVector T7 E. coli Promoter	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.
	SureVector Tac E. coli Promoter	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.
	SureVector Rhamnose E. coli Promoter	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.
	SureVector HA Expression Tag C-Term	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.
	SureVector c-Myc Expression Tag C-Term	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.
	SureVector HIS6 Expression Tag (C-term)	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.
	SureVector CBP Expression Tag (C-Term)	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.
	SureVector SBP Expression Tag (C-term)	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.
	SureVector Thioredoxin Expression Tag (C-Term)	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

Section 6. Accidental release measures

SureVector LacZ E. coli
Control (C-term)

disposal container. Dispose of via a licensed waste 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

SureVector T7 E. coli Promoter	Put on appropriate personal protective equipment (see Section 8).
SureVector Tac E. coli Promoter	Put on appropriate personal protective equipment (see Section 8).
SureVector Rhamnose E. coli Promoter	Put on appropriate personal protective equipment (see Section 8).
SureVector HA Expression Tag C-Term	Put on appropriate personal protective equipment (see Section 8).
SureVector c-Myc Expression Tag C-Term	Put on appropriate personal protective equipment (see Section 8).
SureVector HIS6 Expression Tag (C-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector CBP Expression Tag (C-Term)	Put on appropriate personal protective equipment (see Section 8).
SureVector SBP Expression Tag (C-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector Thioredoxin Expression Tag (C-Term)	Put on appropriate personal protective equipment (see Section 8).
SureVector LacZ E. coli Control (C-term)	Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

SureVector T7 E. coli Promoter	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.
SureVector Tac E. coli Promoter	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.
SureVector Rhamnose E. coli Promoter	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.
SureVector HA Expression Tag C-Term	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.

Section 7. Handling and storage

SureVector c-Myc Expression Tag C-Term	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.
SureVector HIS6 Expression Tag (C-term)	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.
SureVector CBP Expression Tag (C-Term)	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.
SureVector SBP Expression Tag (C-term)	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.
SureVector Thioredoxin Expression Tag (C-Term)	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.
SureVector LacZ <i>E. coli</i> Control (C-term)	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 : SureVector T7 *E. coli* Promoter

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.

SureVector Tac *E. coli* Promoter
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

Section 7. Handling and storage

SureVector Rhamnose *E. coli* Promoter

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. 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.

SureVector HA Expression Tag C-Term

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.

SureVector c-Myc Expression Tag C-Term

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.

SureVector HIS6 Expression Tag (C-term)

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.

SureVector CBP Expression Tag (C-Term)

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

SureVector SBP Expression Tag (C-term)	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.
SureVector Thioredoxin Expression Tag (C-Term)	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.
SureVector LacZ E. coli Control (C-term)	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 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

None known.

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

: 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.

Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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**
- | | |
|--|---------|
| SureVector T7 E. coli Promoter | Liquid. |
| SureVector Tac E. coli Promoter | Liquid. |
| SureVector Rhamnose E. coli Promoter | Liquid. |
| SureVector HA Expression Tag C-Term | Liquid. |
| SureVector c-Myc Expression Tag C-Term | Liquid. |
| SureVector HIS6 Expression Tag (C-term) | Liquid. |
| SureVector CBP Expression Tag (C-Term) | Liquid. |
| SureVector SBP Expression Tag (C-term) | Liquid. |
| SureVector Thioredoxin Expression Tag (C-Term) | Liquid. |
| SureVector LacZ E. coli Control (C-term) | Liquid. |
- Color**
- | | |
|---|----------------|
| SureVector T7 E. coli Promoter | Not available. |
| SureVector Tac E. coli Promoter | Not available. |
| SureVector Rhamnose E. coli Promoter | Not available. |
| SureVector HA Expression Tag C-Term | Not available. |
| SureVector c-Myc Expression Tag C-Term | Not available. |
| SureVector HIS6 Expression Tag (C-term) | Not available. |

Section 9. Physical and chemical properties and safety characteristics

	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-term)	Not available.
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ E. coli Control (C-term)	Not available.
Odor	: SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector Rhamnose E. coli Promoter	Not available.
	SureVector HA Expression Tag C-Term	Not available.
	SureVector c-Myc Expression Tag C-Term	Not available.
	SureVector HIS6 Expression Tag (C-term)	Not available.
	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-term)	Not available.
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ E. coli Control (C-term)	Not available.
Odor threshold	: SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector Rhamnose E. coli Promoter	Not available.
	SureVector HA Expression Tag C-Term	Not available.
	SureVector c-Myc Expression Tag C-Term	Not available.
	SureVector HIS6 Expression Tag (C-term)	Not available.
	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-term)	Not available.
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ E. coli Control (C-term)	Not available.
pH	: SureVector T7 E. coli Promoter	8
	SureVector Tac E. coli Promoter	8
	SureVector Rhamnose E. coli Promoter	8
	SureVector HA Expression Tag C-Term	8
	SureVector c-Myc Expression Tag C-Term	8

Section 9. Physical and chemical properties and safety characteristics

	SureVector HIS6 Expression Tag (C-term)	8
	SureVector CBP Expression Tag (C-Term)	8
	SureVector SBP Expression Tag (C-term)	8
	SureVector Thioredoxin Expression Tag (C-Term)	8
	SureVector LacZ E. coli Control (C-term)	8
Melting point/freezing point	SureVector T7 E. coli Promoter	0°C (32°F)
	SureVector Tac E. coli Promoter	0°C (32°F)
	SureVector Rhamnose E. coli Promoter	0°C (32°F)
	SureVector HA Expression Tag C-Term	0°C (32°F)
	SureVector c-Myc Expression Tag C-Term	0°C (32°F)
	SureVector HIS6 Expression Tag (C-term)	0°C (32°F)
	SureVector CBP Expression Tag (C-Term)	0°C (32°F)
	SureVector SBP Expression Tag (C-term)	0°C (32°F)
	SureVector Thioredoxin Expression Tag (C-Term)	0°C (32°F)
	SureVector LacZ E. coli Control (C-term)	0°C (32°F)
Boiling point, initial boiling point, and boiling range	SureVector T7 E. coli Promoter	100°C (212°F)
	SureVector Tac E. coli Promoter	100°C (212°F)
	SureVector Rhamnose E. coli Promoter	100°C (212°F)
	SureVector HA Expression Tag C-Term	100°C (212°F)
	SureVector c-Myc Expression Tag C-Term	100°C (212°F)
	SureVector HIS6 Expression Tag (C-term)	100°C (212°F)
	SureVector CBP Expression Tag (C-Term)	100°C (212°F)
	SureVector SBP Expression Tag (C-term)	100°C (212°F)
	SureVector Thioredoxin Expression Tag (C-Term)	100°C (212°F)
	SureVector LacZ E. coli Control (C-term)	100°C (212°F)
Flash point	SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector Rhamnose E. coli Promoter	Not available.
	SureVector HA Expression Tag C-Term	Not available.

Section 9. Physical and chemical properties and safety characteristics

	SureVector c-Myc Expression Tag C-Term	Not available.
	SureVector HIS6 Expression Tag (C-term)	Not available.
	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-term)	Not available.
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ E. coli Control (C-term)	Not available.
Evaporation rate	: SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector Rhamnose E. coli Promoter	Not available.
	SureVector HA Expression Tag C-Term	Not available.
	SureVector c-Myc Expression Tag C-Term	Not available.
	SureVector HIS6 Expression Tag (C-term)	Not available.
	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-term)	Not available.
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ E. coli Control (C-term)	Not available.
Flammability	: SureVector T7 E. coli Promoter	Not applicable.
	SureVector Tac E. coli Promoter	Not applicable.
	SureVector Rhamnose E. coli Promoter	Not applicable.
	SureVector HA Expression Tag C-Term	Not applicable.
	SureVector c-Myc Expression Tag C-Term	Not applicable.
	SureVector HIS6 Expression Tag (C-term)	Not applicable.
	SureVector CBP Expression Tag (C-Term)	Not applicable.
	SureVector SBP Expression Tag (C-term)	Not applicable.
	SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
	SureVector LacZ E. coli Control (C-term)	Not applicable.

Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion limit/flammability limit : SureVector T7 E. coli Promoter Not available.
 SureVector Tac E. coli Promoter Not available.
 SureVector Rhamnose E. coli Promoter Not available.
 SureVector HA Expression Tag C-Term Not available.
 SureVector c-Myc Expression Tag C-Term Not available.
 SureVector HIS6 Expression Tag (C-term) Not available.
 SureVector CBP Expression Tag (C-Term) Not available.
 SureVector SBP Expression Tag (C-term) Not available.
 SureVector Thioredoxin Expression Tag (C-Term) Not available.
 SureVector LacZ E. coli Control (C-term) Not available.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
SureVector T7 E. coli Promoter						
water	23.8	3.2		92.258	12.3	
SureVector Tac E. coli Promoter						
water	23.8	3.2		92.258	12.3	
SureVector Rhamnose E. coli Promoter						
water	23.8	3.2		92.258	12.3	
SureVector HA Expression Tag C-Term						
water	23.8	3.2		92.258	12.3	
SureVector c-Myc Expression Tag C-Term						
water	23.8	3.2		92.258	12.3	
SureVector HIS6 Expression Tag						

Section 9. Physical and chemical properties and safety characteristics

(C-term)						
water	23.8	3.2			92.258	12.3
SureVector CBP Expression Tag (C-Term)						
water	23.8	3.2			92.258	12.3
SureVector SBP Expression Tag (C-term)						
water	23.8	3.2			92.258	12.3
SureVector Thioredoxin Expression Tag (C-Term)						
water	23.8	3.2			92.258	12.3
SureVector LacZ E. coli Control (C-term)						
water	23.8	3.2			92.258	12.3

Relative vapor density

SureVector T7 E. coli Promoter	Not available.
SureVector Tac E. coli Promoter	Not available.
SureVector Rhamnose E. coli Promoter	Not available.
SureVector HA Expression Tag C-Term	Not available.
SureVector c-Myc Expression Tag C-Term	Not available.
SureVector HIS6 Expression Tag (C-term)	Not available.
SureVector CBP Expression Tag (C-Term)	Not available.
SureVector SBP Expression Tag (C-term)	Not available.
SureVector Thioredoxin Expression Tag (C-Term)	Not available.
SureVector LacZ E. coli Control (C-term)	Not available.

Section 9. Physical and chemical properties and safety characteristics

Relative density	SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector Rhamnose E. coli Promoter	Not available.
	SureVector HA Expression Tag C-Term	Not available.
	SureVector c-Myc Expression Tag C-Term	Not available.
	SureVector HIS6 Expression Tag (C-term)	Not available.
	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-term)	Not available.
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ E. coli Control (C-term)	Not available.

Solubility(ies)

Media	Result
SureVector T7 E. coli Promoter water	Soluble
SureVector Tac E. coli Promoter water	Soluble
SureVector Rhamnose E. coli Promoter water	Soluble
SureVector HA Expression Tag C-Term water	Soluble
SureVector c-Myc Expression Tag C-Term water	Soluble
SureVector HIS6 Expression Tag (C-term) water	Soluble
SureVector CBP Expression Tag (C-Term) water	Soluble
SureVector SBP Expression Tag (C-term) water	Soluble
SureVector Thioredoxin Expression Tag (C-Term) water	Soluble
SureVector LacZ E. coli Control (C-term)	Soluble

Section 9. Physical and chemical properties and safety characteristics

	water	Soluble
Partition coefficient: n-octanol/water	<ul style="list-style-type: none"> : SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector HA Expression Tag C-Term SureVector c-Myc Expression Tag C-Term SureVector HIS6 Expression Tag (C-term) SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-term) SureVector Thioredoxin Expression Tag (C-Term) SureVector LacZ E. coli Control (C-term) 	<ul style="list-style-type: none"> Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Auto-ignition temperature	<ul style="list-style-type: none"> : SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector HA Expression Tag C-Term SureVector c-Myc Expression Tag C-Term SureVector HIS6 Expression Tag (C-term) SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-term) SureVector Thioredoxin Expression Tag (C-Term) SureVector LacZ E. coli Control (C-term) 	<ul style="list-style-type: none"> Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Decomposition temperature	<ul style="list-style-type: none"> : SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector HA Expression Tag C-Term SureVector c-Myc Expression Tag C-Term SureVector HIS6 Expression Tag (C-term) SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-term) SureVector Thioredoxin 	<ul style="list-style-type: none"> Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.

Section 9. Physical and chemical properties and safety characteristics

	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	Not available.
Viscosity	: SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector Rhamnose E. coli Promoter	Not available.
	SureVector HA Expression Tag C-Term	Not available.
	SureVector c-Myc Expression Tag C-Term	Not available.
	SureVector HIS6 Expression Tag (C-term)	Not available.
	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-term)	Not available.
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ E. coli Control (C-term)	Not available.

Particle characteristics

Median particle size

: SureVector T7 E. coli Promoter	Not applicable.
SureVector Tac E. coli Promoter	Not applicable.
SureVector Rhamnose E. coli Promoter	Not applicable.
SureVector HA Expression Tag C-Term	Not applicable.
SureVector c-Myc Expression Tag C-Term	Not applicable.
SureVector HIS6 Expression Tag (C-term)	Not applicable.
SureVector CBP Expression Tag (C-Term)	Not applicable.
SureVector SBP Expression Tag (C-term)	Not applicable.
SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
SureVector LacZ E. coli Control (C-term)	Not applicable.

Section 10. Stability and reactivity

Reactivity	: SureVector T7 E. coli Promoter	No specific test data related to reactivity available for this product or its ingredients.
	SureVector Tac E. coli Promoter	No specific test data related to reactivity available for this product or its ingredients.
	SureVector Rhamnose E. coli Promoter	No specific test data related to reactivity available for this product or its ingredients.
	SureVector HA Expression Tag C-Term	No specific test data related to reactivity available for this product or its ingredients.
	SureVector c-Myc Expression Tag C-Term	No specific test data related to reactivity available for this product or its ingredients.
	SureVector HIS6 Expression	No specific test data related to reactivity available for

Section 10. Stability and reactivity

Tag (C-term)	this product or its ingredients.
SureVector CBP Expression Tag (C-Term)	No specific test data related to reactivity available for this product or its ingredients.
SureVector SBP Expression Tag (C-term)	No specific test data related to reactivity available for this product or its ingredients.
SureVector Thioredoxin Expression Tag (C-Term)	No specific test data related to reactivity available for this product or its ingredients.
SureVector LacZ E. coli Control (C-term)	No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: SureVector T7 E. coli Promoter	The product is stable.
SureVector Tac E. coli Promoter	The product is stable.
SureVector Rhamnose E. coli Promoter	The product is stable.
SureVector HA Expression Tag C-Term	The product is stable.
SureVector c-Myc Expression Tag C-Term	The product is stable.
SureVector HIS6 Expression Tag (C-term)	The product is stable.
SureVector CBP Expression Tag (C-Term)	The product is stable.
SureVector SBP Expression Tag (C-term)	The product is stable.
SureVector Thioredoxin Expression Tag (C-Term)	The product is stable.
SureVector LacZ E. coli Control (C-term)	The product is stable.

Possibility of hazardous reactions

: SureVector T7 E. coli Promoter	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector Tac E. coli Promoter	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector Rhamnose E. coli Promoter	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector HA Expression Tag C-Term	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector c-Myc Expression Tag C-Term	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector HIS6 Expression Tag (C-term)	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector CBP Expression Tag (C-Term)	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector SBP Expression Tag (C-term)	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector Thioredoxin Expression Tag (C-Term)	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector LacZ E. coli Control (C-term)	Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

Conditions to avoid	: SureVector T7 E. coli Promoter	No specific data.	
	SureVector Tac E. coli Promoter	No specific data.	
	SureVector Rhamnose E. coli Promoter	No specific data.	
	SureVector HA Expression Tag C-Term	No specific data.	
	SureVector c-Myc Expression Tag C-Term	No specific data.	
	SureVector HIS6 Expression Tag (C-term)	No specific data.	
	SureVector CBP Expression Tag (C-Term)	No specific data.	
	SureVector SBP Expression Tag (C-term)	No specific data.	
	SureVector Thioredoxin Expression Tag (C-Term)	No specific data.	
	SureVector LacZ E. coli Control (C-term)	No specific data.	
	Incompatible materials	: SureVector T7 E. coli Promoter	May react or be incompatible with oxidizing materials.
		SureVector Tac E. coli Promoter	May react or be incompatible with oxidizing materials.
		SureVector Rhamnose E. coli Promoter	May react or be incompatible with oxidizing materials.
		SureVector HA Expression Tag C-Term	May react or be incompatible with oxidizing materials.
		SureVector c-Myc Expression Tag C-Term	May react or be incompatible with oxidizing materials.
SureVector HIS6 Expression Tag (C-term)		May react or be incompatible with oxidizing materials.	
SureVector CBP Expression Tag (C-Term)		May react or be incompatible with oxidizing materials.	
SureVector SBP Expression Tag (C-term)		May react or be incompatible with oxidizing materials.	
SureVector Thioredoxin Expression Tag (C-Term)		May react or be incompatible with oxidizing materials.	
SureVector LacZ E. coli Control (C-term)		May react or be incompatible with oxidizing materials.	
Hazardous decomposition products		: SureVector T7 E. coli Promoter	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureVector Tac E. coli Promoter	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureVector Rhamnose E. coli Promoter	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureVector HA Expression Tag C-Term	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureVector c-Myc Expression Tag C-Term	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector HIS6 Expression Tag (C-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 10. Stability and reactivity

SureVector CBP Expression Tag (C-Term)	produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector SBP Expression Tag (C-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector Thioredoxin Expression Tag (C-Term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector LacZ E. coli Control (C-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

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	: SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector Rhamnose E. coli Promoter	Not available.
	SureVector HA Expression Tag C-Term	Not available.
	SureVector c-Myc Expression Tag C-Term	Not available.
	SureVector HIS6 Expression Tag (C-term)	Not available.
	SureVector CBP Expression	Not available.

Section 11. Toxicological information

Tag (C-Term)
 SureVector SBP Expression Not available.
 Tag (C-term)
 SureVector Thioredoxin Not available.
 Expression Tag (C-Term)
 SureVector LacZ E. coli Not available.
 Control (C-term)

Potential acute health effects

Eye contact

: SureVector T7 E. coli Promoter No known significant effects or critical hazards.
 SureVector Tac E. coli Promoter No known significant effects or critical hazards.
 SureVector Rhamnose E. coli Promoter No known significant effects or critical hazards.
 SureVector HA Expression Tag C-Term No known significant effects or critical hazards.
 SureVector c-Myc Expression Tag C-Term No known significant effects or critical hazards.
 SureVector HIS6 Expression Tag (C-term) No known significant effects or critical hazards.
 SureVector CBP Expression Tag (C-Term) No known significant effects or critical hazards.
 SureVector SBP Expression Tag (C-term) No known significant effects or critical hazards.
 SureVector Thioredoxin Expression Tag (C-Term) No known significant effects or critical hazards.
 SureVector LacZ E. coli Control (C-term) No known significant effects or critical hazards.

Inhalation

: SureVector T7 E. coli Promoter No known significant effects or critical hazards.
 SureVector Tac E. coli Promoter No known significant effects or critical hazards.
 SureVector Rhamnose E. coli Promoter No known significant effects or critical hazards.
 SureVector HA Expression Tag C-Term No known significant effects or critical hazards.
 SureVector c-Myc Expression Tag C-Term No known significant effects or critical hazards.
 SureVector HIS6 Expression Tag (C-term) No known significant effects or critical hazards.
 SureVector CBP Expression Tag (C-Term) No known significant effects or critical hazards.
 SureVector SBP Expression Tag (C-term) No known significant effects or critical hazards.
 SureVector Thioredoxin Expression Tag (C-Term) No known significant effects or critical hazards.
 SureVector LacZ E. coli Control (C-term) No known significant effects or critical hazards.

Skin contact

: SureVector T7 E. coli Promoter No known significant effects or critical hazards.
 SureVector Tac E. coli Promoter No known significant effects or critical hazards.
 SureVector Rhamnose E. coli Promoter No known significant effects or critical hazards.
 SureVector HA Expression Tag C-Term No known significant effects or critical hazards.
 SureVector c-Myc Expression Tag C-Term No known significant effects or critical hazards.
 SureVector HIS6 Expression No known significant effects or critical hazards.

Section 11. Toxicological information

	Tag (C-term)	
	SureVector CBP Expression	No known significant effects or critical hazards.
	Tag (C-Term)	
	SureVector SBP Expression	No known significant effects or critical hazards.
	Tag (C-term)	
	SureVector Thioredoxin	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	No known significant effects or critical hazards.
	Control (C-term)	
Ingestion	: SureVector T7 E. coli	No known significant effects or critical hazards.
	Promoter	
	SureVector Tac E. coli	No known significant effects or critical hazards.
	Promoter	
	SureVector Rhamnose E.	No known significant effects or critical hazards.
	coli Promoter	
	SureVector HA Expression	No known significant effects or critical hazards.
	Tag C-Term	
	SureVector c-Myc	No known significant effects or critical hazards.
	Expression Tag C-Term	
	SureVector HIS6 Expression	No known significant effects or critical hazards.
	Tag (C-term)	
	SureVector CBP Expression	No known significant effects or critical hazards.
	Tag (C-Term)	
	SureVector SBP Expression	No known significant effects or critical hazards.
	Tag (C-term)	
	SureVector Thioredoxin	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	No known significant effects or critical hazards.
	Control (C-term)	

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: SureVector T7 E. coli	No specific data.
	Promoter	
	SureVector Tac E. coli	No specific data.
	Promoter	
	SureVector Rhamnose E.	No specific data.
	coli Promoter	
	SureVector HA Expression	No specific data.
	Tag C-Term	
	SureVector c-Myc	No specific data.
	Expression Tag C-Term	
	SureVector HIS6 Expression	No specific data.
	Tag (C-term)	
	SureVector CBP Expression	No specific data.
	Tag (C-Term)	
	SureVector SBP Expression	No specific data.
	Tag (C-term)	
	SureVector Thioredoxin	No specific data.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	No specific data.
	Control (C-term)	
Inhalation	: SureVector T7 E. coli	No specific data.
	Promoter	
	SureVector Tac E. coli	No specific data.
	Promoter	
	SureVector Rhamnose E.	No specific data.
	coli Promoter	
	SureVector HA Expression	No specific data.
	Tag C-Term	

Section 11. Toxicological information

	SureVector c-Myc Expression Tag C-Term	No specific data.
	SureVector HIS6 Expression Tag (C-term)	No specific data.
	SureVector CBP Expression Tag (C-Term)	No specific data.
	SureVector SBP Expression Tag (C-term)	No specific data.
	SureVector Thioredoxin Expression Tag (C-Term)	No specific data.
	SureVector LacZ E. coli Control (C-term)	No specific data.
Skin contact	: SureVector T7 E. coli Promoter	No specific data.
	SureVector Tac E. coli Promoter	No specific data.
	SureVector Rhamnose E. coli Promoter	No specific data.
	SureVector HA Expression Tag C-Term	No specific data.
	SureVector c-Myc Expression Tag C-Term	No specific data.
	SureVector HIS6 Expression Tag (C-term)	No specific data.
	SureVector CBP Expression Tag (C-Term)	No specific data.
	SureVector SBP Expression Tag (C-term)	No specific data.
	SureVector Thioredoxin Expression Tag (C-Term)	No specific data.
	SureVector LacZ E. coli Control (C-term)	No specific data.
Ingestion	: SureVector T7 E. coli Promoter	No specific data.
	SureVector Tac E. coli Promoter	No specific data.
	SureVector Rhamnose E. coli Promoter	No specific data.
	SureVector HA Expression Tag C-Term	No specific data.
	SureVector c-Myc Expression Tag C-Term	No specific data.
	SureVector HIS6 Expression Tag (C-term)	No specific data.
	SureVector CBP Expression Tag (C-Term)	No specific data.
	SureVector SBP Expression Tag (C-term)	No specific data.
	SureVector Thioredoxin Expression Tag (C-Term)	No specific data.
	SureVector LacZ E. coli Control (C-term)	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.

Section 11. Toxicological information

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General :

SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.
SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.

Carcinogenicity :

SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.
SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.

Mutagenicity :

SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.

Section 11. Toxicological information

	SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
Reproductive toxicity	: <input checked="" type="checkbox"/> SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
	SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
	SureVector HA Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector c-Myc Expression Tag C-Term	No known significant effects or critical hazards.
	SureVector HIS6 Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector SBP Expression Tag (C-term)	No known significant effects or critical hazards.
	SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

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

Section 14. Transport information

TDG / 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

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

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.

Eurasian Economic Union : **Russian Federation inventory:** Not determined.

Japan : **Japan inventory (CSCL):** Not determined.
Japan inventory (ISHL): All components are listed or exempted.

New Zealand : Not determined.

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	: <input checked="" type="checkbox"/> All components are active or exempted.
Viet Nam	: Not determined.

Section 16. Other information

History

Date of issue/Date of revision : 09/06/2022

Date of previous issue : 11/24/2019

Version : 4

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- HPR = Hazardous Products Regulations
- 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

Procedure used to derive the classification

Classification	Justification
Not classified.	

Indicates information that has changed from previously issued version.

Notice to reader

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