

SAFETY DATA SHEET

SureVector E. coli N-terminal Expansion Kit, 15 rxn, Part Number G7515A

Section 1. Identification

Product identifier	: SureVector E. coli N-terminal Expansion Kit, 15 rxn, Part Number G7515A
Part no. (chemical kit)	: G7515A
Part no.	: SureVector T7 E. coli Promoter 5190-8104 SureVector Tac E. coli Promoter 5190-8606 SureVector Rhamnose E. coli Promoter 5190-8607 SureVector GST E. coli Expression Tag (N-term) 5190-8608 SureVector MBP E. coli Expression Tag (N-term) 5190-8609 SureVector HIS6 E. coli Expression Tag (N-term) 5190-8610 SureVector CBP E. coli Expression Tag (N-term) 5190-8611 SureVector SBP E. coli Expression Tag (N-term) 5190-8612 SureVector His-DsbA E. coli Expression Tag (N-term) 5190-8613 SureVector LacZ Control (N-term) 5190-8103
Material uses	: Analytical reagent. 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 GST E. coli Expression Tag (N-term) 0.03 ml (15 reactions) SureVector MBP E. coli Expression Tag (N-term) 0.03 ml (15 reactions) SureVector HIS6 E. coli Expression Tag (N-term) 0.03 ml (15 reactions) SureVector CBP E. coli Expression Tag (N-term) 0.03 ml (15 reactions) SureVector SBP E. coli Expression Tag (N-term) 0.03 ml (15 reactions) SureVector His-DsbA E. coli Expression Tag (N-term) 0.03 ml (15 reactions) SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No signal word.
SureVector MBP E. coli Expression Tag (N-term)	No signal word.
SureVector HIS6 E. coli Expression Tag (N-term)	No signal word.
SureVector CBP E. coli Expression Tag (N-term)	No signal word.
SureVector SBP E. coli Expression Tag (N-term)	No signal word.
SureVector His-DsbA E. coli Expression Tag (N-term)	No signal word.
SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector MBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector HIS6 E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector CBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector SBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector His-DsbA E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Not applicable.
SureVector MBP E. coli Expression Tag (N-term)	Not applicable.
SureVector HIS6 E. coli Expression Tag (N-term)	Not applicable.

Section 2. Hazard identification

	SureVector CBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector SBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Not applicable.
	SureVector LacZ Control (N-term)	Not applicable.
Response	: SureVector T7 E. coli Promoter	Not applicable.
	SureVector Tac E. coli Promoter	Not applicable.
	SureVector Rhamnose E. coli Promoter	Not applicable.
	SureVector GST E. coli Expression Tag (N-term)	Not applicable.
	SureVector MBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector HIS6 E. coli Expression Tag (N-term)	Not applicable.
	SureVector CBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector SBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Not applicable.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Not applicable.
	SureVector MBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector HIS6 E. coli Expression Tag (N-term)	Not applicable.
	SureVector CBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector SBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Not applicable.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Not applicable.
	SureVector MBP E. coli Expression Tag (N-term)	Not applicable.
	SureVector HIS6 E. coli	Not applicable.

Section 2. Hazard identification

	Expression Tag (N-term)	
	SureVector CBP E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector SBP E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector His-DsbA E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector LacZ Control (N-term)	Not applicable.
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 GST E. coli Expression Tag (N-term)	None known.
	SureVector MBP E. coli Expression Tag (N-term)	None known.
	SureVector HIS6 E. coli Expression Tag (N-term)	None known.
	SureVector CBP E. coli Expression Tag (N-term)	None known.
	SureVector SBP E. coli Expression Tag (N-term)	None known.
	SureVector His-DsbA E. coli Expression Tag (N-term)	None known.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	None known.
	SureVector MBP E. coli Expression Tag (N-term)	None known.
	SureVector HIS6 E. coli Expression Tag (N-term)	None known.
	SureVector CBP E. coli Expression Tag (N-term)	None known.
	SureVector SBP E. coli Expression Tag (N-term)	None known.
	SureVector His-DsbA E. coli Expression Tag (N-term)	None known.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Mixture

Section 3. Composition/information on ingredients

SureVector MBP E. coli Expression Tag (N-term)	Mixture
SureVector HIS6 E. coli Expression Tag (N-term)	Mixture
SureVector CBP E. coli Expression Tag (N-term)	Mixture
SureVector SBP E. coli Expression Tag (N-term)	Mixture
SureVector His-DsbA E. coli Expression Tag (N-term)	Mixture
SureVector LacZ Control (N- term)	Mixture

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

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact

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 GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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 Control (N- 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.

Section 4. First-aid measures

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 GST E. coli Expression Tag (N-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector MBP E. coli Expression Tag (N-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector HIS6 E. coli Expression Tag (N-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector CBP E. coli Expression Tag (N-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector SBP E. coli Expression Tag (N-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector His-DsbA E. coli Expression Tag (N-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector MBP E. coli Expression Tag (N-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector HIS6 E. coli Expression Tag (N-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector CBP E. coli Expression Tag (N-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector SBP E. coli Expression Tag (N-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector His-DsbA E. coli Expression Tag (N-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector LacZ Control (N-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First-aid measures

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.
	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 GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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 Control (N-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

Section 4. First-aid measures

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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector MBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector HIS6 E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector CBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector SBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector His-DsbA E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector MBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector HIS6 E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector CBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector SBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector His-DsbA E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector MBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector HIS6 E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector CBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector SBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector His-DsbA E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector LacZ Control (N-term)	No known significant effects or critical hazards.	

Section 4. First-aid measures

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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
	SureVector MBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
	SureVector HIS6 E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
	SureVector CBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
	SureVector SBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific data.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific data.
	SureVector LacZ Control (N-term)	No specific data.

Section 4. First-aid measures

	term)	
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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific data.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific data.
	SureVector LacZ Control (N-term)	No specific data.

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

Notes to physician	: SureVector T7 E. coli Promoter	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector Tac E. coli Promoter	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector Rhamnose E. coli Promoter	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector GST E. coli Expression Tag (N-term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector MBP E. coli Expression Tag (N-term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector HIS6 E. coli	Treat symptomatically. Contact poison treatment

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	Expression Tag (N-term)	specialist immediately if large quantities have been ingested or inhaled.
	SureVector CBP E. coli Expression Tag (N-term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector SBP E. coli Expression Tag (N-term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector LacZ Control (N-term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: SureVector T7 E. coli Promoter	No specific treatment.
	SureVector Tac E. coli Promoter	No specific treatment.
	SureVector Rhamnose E. coli Promoter	No specific treatment.
	SureVector GST E. coli Expression Tag (N-term)	No specific treatment.
	SureVector MBP E. coli Expression Tag (N-term)	No specific treatment.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific treatment.
	SureVector CBP E. coli Expression Tag (N-term)	No specific treatment.
	SureVector SBP E. coli Expression Tag (N-term)	No specific treatment.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific treatment.
	SureVector LacZ Control (N-term)	No specific treatment.
Protection of first-aiders	: SureVector T7 E. coli Promoter	No action shall be taken involving any personal risk or without suitable training.
	SureVector Tac E. coli Promoter	No action shall be taken involving any personal risk or without suitable training.
	SureVector Rhamnose E. coli Promoter	No action shall be taken involving any personal risk or without suitable training.
	SureVector GST E. coli Expression Tag (N-term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector MBP E. coli Expression Tag (N-term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector HIS6 E. coli Expression Tag (N-term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector CBP E. coli Expression Tag (N-term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector SBP E. coli Expression Tag (N-term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector LacZ Control (N-term)	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	Use an extinguishing agent suitable for the surrounding fire.
	SureVector Tac E. coli Promoter	Use an extinguishing agent suitable for the surrounding fire.
	SureVector Rhamnose E. coli Promoter	Use an extinguishing agent suitable for the surrounding fire.
	SureVector GST E. coli Expression Tag (N-term)	Use an extinguishing agent suitable for the surrounding fire.
	SureVector MBP E. coli Expression Tag (N-term)	Use an extinguishing agent suitable for the surrounding fire.
	SureVector HIS6 E. coli Expression Tag (N-term)	Use an extinguishing agent suitable for the surrounding fire.
	SureVector CBP E. coli Expression Tag (N-term)	Use an extinguishing agent suitable for the surrounding fire.
	SureVector SBP E. coli Expression Tag (N-term)	Use an extinguishing agent suitable for the surrounding fire.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Use an extinguishing agent suitable for the surrounding fire.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	None known.
	SureVector MBP E. coli Expression Tag (N-term)	None known.
	SureVector HIS6 E. coli Expression Tag (N-term)	None known.
	SureVector CBP E. coli Expression Tag (N-term)	None known.
	SureVector SBP E. coli Expression Tag (N-term)	None known.
	SureVector His-DsbA E. coli Expression Tag (N-term)	None known.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector MBP E. coli Expression Tag (N-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector HIS6 E. coli Expression Tag (N-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector CBP E. coli Expression Tag (N-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector SBP E. coli Expression Tag (N-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector His-DsbA E. coli	In a fire or if heated, a pressure increase will occur

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	Expression Tag (N-term)	and the container may burst.	
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No specific data.	
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.	
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.	
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.	
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.	
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific data.	
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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	

Section 5. Fire-fighting measures

	SureVector LacZ Control (N-term)	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: 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 (SCBA) with a full face-piece operated in positive pressure mode.
	SureVector GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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 Control (N-term)

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

Section 6. Accidental release measures

SureVector Rhamnose E. coli Promoter	protective equipment. 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 GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 HIS6 E. coli Expression Tag (N-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 CBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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 Control (N-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

Section 6. Accidental release measures

SureVector GST E. coli Expression Tag (N-term)	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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 SBP E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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 Control (N-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 GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 CBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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 LacZ Control (N-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).

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 GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli	Stop leak if without risk. Move containers from spill

Section 6. Accidental release measures

Expression Tag (N-term)	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 E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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 LacZ Control (N-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.

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 GST E. coli Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector MBP E. coli Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector HIS6 E. coli Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector CBP E. coli Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector SBP E. coli Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector His-DsbA E. coli Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector LacZ Control (N-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

Section 7. Handling and storage

SureVector Rhamnose E. coli Promoter

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

SureVector GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 E. coli Expression Tag (N-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 His-DsbA E. coli Expression Tag (N-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 Control (N-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

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 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 Rhamnose 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 GST E. coli Expression Tag (N-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 MBP E. coli Expression Tag (N-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 E. coli Expression Tag (N-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

Section 7. Handling and storage

SureVector CBP E. coli
Expression Tag (N-term)

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. 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 SBP E. coli
Expression Tag (N-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 His-DsbA E. coli
Expression Tag (N-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 Control (N-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.

- 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.
- 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 GST E. coli Expression Tag (N-term) | Liquid. |
| SureVector MBP E. coli Expression Tag (N-term) | Liquid. |
| SureVector HIS6 E. coli Expression Tag (N-term) | Liquid. |

Section 9. Physical and chemical properties and safety characteristics

	SureVector CBP E. coli Expression Tag (N-term)	Liquid.
	SureVector SBP E. coli Expression Tag (N-term)	Liquid.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Liquid.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Not available.
	SureVector MBP E. coli Expression Tag (N-term)	Not available.
	SureVector HIS6 E. coli Expression Tag (N-term)	Not available.
	SureVector CBP E. coli Expression Tag (N-term)	Not available.
	SureVector SBP E. coli Expression Tag (N-term)	Not available.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Not available.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Not available.
	SureVector MBP E. coli Expression Tag (N-term)	Not available.
	SureVector HIS6 E. coli Expression Tag (N-term)	Not available.
	SureVector CBP E. coli Expression Tag (N-term)	Not available.
	SureVector SBP E. coli Expression Tag (N-term)	Not available.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Not available.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Not available.
	SureVector MBP E. coli Expression Tag (N-term)	Not available.

Section 9. Physical and chemical properties and safety characteristics

	SureVector HIS6 E. coli Expression Tag (N-term)	Not available.
	SureVector CBP E. coli Expression Tag (N-term)	Not available.
	SureVector SBP E. coli Expression Tag (N-term)	Not available.
	SureVector His-DsbA E. coli Expression Tag (N-term)	Not available.
	SureVector LacZ Control (N-term)	Not available.
pH	: SureVector T7 E. coli Promoter	8
	SureVector Tac E. coli Promoter	8
	SureVector Rhamnose E. coli Promoter	8
	SureVector GST E. coli Expression Tag (N-term)	8
	SureVector MBP E. coli Expression Tag (N-term)	8
	SureVector HIS6 E. coli Expression Tag (N-term)	8
	SureVector CBP E. coli Expression Tag (N-term)	8
	SureVector SBP E. coli Expression Tag (N-term)	8
	SureVector His-DsbA E. coli Expression Tag (N-term)	8
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	0°C (32°F)
	SureVector MBP E. coli Expression Tag (N-term)	0°C (32°F)
	SureVector HIS6 E. coli Expression Tag (N-term)	0°C (32°F)
	SureVector CBP E. coli Expression Tag (N-term)	0°C (32°F)
	SureVector SBP E. coli Expression Tag (N-term)	0°C (32°F)
	SureVector His-DsbA E. coli Expression Tag (N-term)	0°C (32°F)
	SureVector LacZ Control (N-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 GST E. coli	100°C (212°F)

Section 9. Physical and chemical properties and safety characteristics

Expression Tag (N-term)
 SureVector MBP E. coli 100°C (212°F)
 Expression Tag (N-term)
 SureVector HIS6 E. coli 100°C (212°F)
 Expression Tag (N-term)
 SureVector CBP E. coli 100°C (212°F)
 Expression Tag (N-term)
 SureVector SBP E. coli 100°C (212°F)
 Expression Tag (N-term)
 SureVector His-DsbA E. coli 100°C (212°F)
 Expression Tag (N-term)
 SureVector LacZ Control (N-term) 100°C (212°F)

Flash point

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
SureVector T7 E. coli Promoter						
Edetic acid	>100	>212	DIN 51758			
SureVector Tac E. coli Promoter						
Edetic acid	>100	>212	DIN 51758			
SureVector Rhamnose E. coli Promoter						
Edetic acid	>100	>212	DIN 51758			
SureVector GST E. coli Expression Tag (N-term)						
Edetic acid	>100	>212	DIN 51758			
SureVector MBP E. coli Expression Tag (N-term)						
Edetic acid	>100	>212	DIN 51758			
SureVector HIS6 E. coli Expression Tag (N-term)						
Edetic acid	>100	>212	DIN 51758			
SureVector CBP E. coli Expression Tag (N-term)						
Edetic acid	>100	>212	DIN 51758			
SureVector SBP E. coli Expression Tag (N-term)						
Edetic acid	>100	>212	DIN 51758			
SureVector His-DsbA						

Section 9. Physical and chemical properties and safety characteristics

E. coli Expression Tag (N-term)						
Edetic acid	>100	>212	DIN 51758			
SureVector LacZ Control (N-term)						
Edetic acid	>100	>212	DIN 51758			

Evaporation rate :

- SureVector T7 E. coli Promoter Not available.
- SureVector Tac E. coli Promoter Not available.
- SureVector Rhamnose E. coli Promoter Not available.
- SureVector GST E. coli Expression Tag (N-term) Not available.
- SureVector MBP E. coli Expression Tag (N-term) Not available.
- SureVector HIS6 E. coli Expression Tag (N-term) Not available.
- SureVector CBP E. coli Expression Tag (N-term) Not available.
- SureVector SBP E. coli Expression Tag (N-term) Not available.
- SureVector His-DsbA E. coli Expression Tag (N-term) Not available.
- SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term) Not applicable.
- SureVector MBP E. coli Expression Tag (N-term) Not applicable.
- SureVector HIS6 E. coli Expression Tag (N-term) Not applicable.
- SureVector CBP E. coli Expression Tag (N-term) Not applicable.
- SureVector SBP E. coli Expression Tag (N-term) Not applicable.
- SureVector His-DsbA E. coli Expression Tag (N-term) Not applicable.
- SureVector LacZ Control (N-term) Not applicable.

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 GST E. coli Expression Tag (N-term) Not available.
- SureVector MBP E. coli Expression Tag (N-term) Not available.

Section 9. Physical and chemical properties and safety characteristics

SureVector HIS6 E. coli Expression Tag (N-term) Not available.
 SureVector CBP E. coli Expression Tag (N-term) Not available.
 SureVector SBP E. coli Expression Tag (N-term) Not available.
 SureVector His-DsbA E. coli Expression Tag (N-term) Not available.
 SureVector LacZ Control (N-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	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
SureVector Tac E. coli Promoter						
Water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
SureVector Rhamnose E. coli Promoter						
Water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
SureVector GST E. coli Expression Tag (N-term)						
Water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
SureVector MBP E. coli Expression Tag (N-term)						
Water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	
SureVector HIS6 E. coli Expression Tag (N-term)						

Section 9. Physical and chemical properties and safety characteristics

Water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001
SureVector CBP E. coli Expression Tag (N-term)					
Water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001
SureVector SBP E. coli Expression Tag (N-term)					
Water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001
SureVector His-DsbA E. coli Expression Tag (N-term)					
Water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001
SureVector LacZ Control (N-term)					
Water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001

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 GST E. coli Expression Tag (N-term)	Not available.
SureVector MBP E. coli Expression Tag (N-term)	Not available.
SureVector HIS6 E. coli Expression Tag (N-term)	Not available.
SureVector CBP E. coli Expression Tag (N-term)	Not available.
SureVector SBP E. coli Expression Tag (N-term)	Not available.
SureVector His-DsbA E. coli Expression Tag (N-term)	Not available.
SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Not available.	
	SureVector MBP E. coli Expression Tag (N-term)	Not available.	
	SureVector HIS6 E. coli Expression Tag (N-term)	Not available.	
	SureVector CBP E. coli Expression Tag (N-term)	Not available.	
	SureVector SBP E. coli Expression Tag (N-term)	Not available.	
	SureVector His-DsbA E. coli Expression Tag (N-term)	Not available.	
	SureVector LacZ Control (N-term)	Not available.	
	Solubility	: SureVector T7 E. coli Promoter	Easily soluble in the following materials: cold water and hot water.
		SureVector Tac E. coli Promoter	Easily soluble in the following materials: cold water and hot water.
		SureVector Rhamnose E. coli Promoter	Easily soluble in the following materials: cold water and hot water.
		SureVector GST E. coli Expression Tag (N-term)	Easily soluble in the following materials: cold water and hot water.
SureVector MBP E. coli Expression Tag (N-term)		Easily soluble in the following materials: cold water and hot water.	
SureVector HIS6 E. coli Expression Tag (N-term)		Easily soluble in the following materials: cold water and hot water.	
SureVector CBP E. coli Expression Tag (N-term)		Easily soluble in the following materials: cold water and hot water.	
SureVector SBP E. coli Expression Tag (N-term)		Easily soluble in the following materials: cold water and hot water.	
SureVector His-DsbA E. coli Expression Tag (N-term)		Easily soluble in the following materials: cold water and hot water.	
SureVector LacZ Control (N-term)		Easily soluble in the following materials: cold water and hot water.	
Partition coefficient: n-octanol/water		: SureVector T7 E. coli Promoter	Not applicable.
		SureVector Tac E. coli Promoter	Not applicable.
		SureVector Rhamnose E. coli Promoter	Not applicable.
		SureVector GST E. coli Expression Tag (N-term)	Not applicable.
	SureVector MBP E. coli Expression Tag (N-term)	Not applicable.	
	SureVector HIS6 E. coli Expression Tag (N-term)	Not applicable.	
	SureVector CBP E. coli Expression Tag (N-term)	Not applicable.	
	SureVector SBP E. coli Expression Tag (N-term)	Not applicable.	
	SureVector His-DsbA E. coli Expression Tag (N-term)	Not applicable.	

Section 9. Physical and chemical properties and safety characteristics

SureVector LacZ Control (N-term) : Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
SureVector T7 E. coli Promoter			
Edetic acid	>400	>752	VDI 2263
SureVector Tac E. coli Promoter			
Edetic acid	>400	>752	VDI 2263
SureVector Rhamnose E. coli Promoter			
Edetic acid	>400	>752	VDI 2263
SureVector GST E. coli Expression Tag (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector MBP E. coli Expression Tag (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector HIS6 E. coli Expression Tag (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector CBP E. coli Expression Tag (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector SBP E. coli Expression Tag (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector His-DsbA E. coli Expression Tag (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector LacZ Control (N-term)			
Edetic acid	>400	>752	VDI 2263

Decomposition temperature :

SureVector T7 E. coli Promoter : Not available.
 SureVector Tac E. coli Promoter : Not available.
 SureVector Rhamnose E. coli Promoter : Not available.
 SureVector GST E. coli Expression Tag (N-term) : Not available.
 SureVector MBP E. coli Expression Tag (N-term) : Not available.
 SureVector HIS6 E. coli : Not available.

Section 9. Physical and chemical properties and safety characteristics

	Expression Tag (N-term)	
	SureVector CBP E. coli	Not available.
	Expression Tag (N-term)	
	SureVector SBP E. coli	Not available.
	Expression Tag (N-term)	
	SureVector His-DsbA E. coli	Not available.
	Expression Tag (N-term)	
	SureVector LacZ Control (N-term)	Not available.
Viscosity	: SureVector T7 E. coli	Not available.
	Promoter	
	SureVector Tac E. coli	Not available.
	Promoter	
	SureVector Rhamnose E. coli Promoter	Not available.
	SureVector GST E. coli	Not available.
	Expression Tag (N-term)	
	SureVector MBP E. coli	Not available.
	Expression Tag (N-term)	
	SureVector HIS6 E. coli	Not available.
	Expression Tag (N-term)	
	SureVector CBP E. coli	Not available.
	Expression Tag (N-term)	
	SureVector SBP E. coli	Not available.
	Expression Tag (N-term)	
	SureVector His-DsbA E. coli	Not available.
	Expression Tag (N-term)	
	SureVector LacZ Control (N-term)	Not available.

Particle characteristics

Median particle size

: <input checked="" type="checkbox"/>	SureVector T7 E. coli	Not applicable.
	Promoter	
	SureVector Tac E. coli	Not applicable.
	Promoter	
	SureVector Rhamnose E. coli Promoter	Not applicable.
	SureVector GST E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector MBP E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector HIS6 E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector CBP E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector SBP E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector His-DsbA E. coli	Not applicable.
	Expression Tag (N-term)	
	SureVector LacZ Control (N-term)	Not applicable.

Section 10. Stability and reactivity

Reactivity	<ul style="list-style-type: none"> : SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector HIS6 E. coli Expression Tag (N-term) SureVector CBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) SureVector His-DsbA E. coli Expression Tag (N-term) SureVector LacZ Control (N-term) 	<ul style="list-style-type: none"> No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	<ul style="list-style-type: none"> : SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector HIS6 E. coli Expression Tag (N-term) SureVector CBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) SureVector His-DsbA E. coli Expression Tag (N-term) SureVector LacZ Control (N-term) 	<ul style="list-style-type: none"> The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
Possibility of hazardous reactions	<ul style="list-style-type: none"> : SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector Rhamnose E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector HIS6 E. coli Expression Tag (N-term) SureVector CBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) SureVector His-DsbA E. coli 	<ul style="list-style-type: none"> Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use,

Section 10. Stability and reactivity

	Expression Tag (N-term)	hazardous reactions will not occur.
	SureVector LacZ Control (N-term)	Under normal conditions of storage and use, hazardous reactions will not occur.
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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific data.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	May react or be incompatible with oxidizing materials.
	SureVector MBP E. coli Expression Tag (N-term)	May react or be incompatible with oxidizing materials.
	SureVector HIS6 E. coli Expression Tag (N-term)	May react or be incompatible with oxidizing materials.
	SureVector CBP E. coli Expression Tag (N-term)	May react or be incompatible with oxidizing materials.
	SureVector SBP E. coli Expression Tag (N-term)	May react or be incompatible with oxidizing materials.
	SureVector His-DsbA E. coli Expression Tag (N-term)	May react or be incompatible with oxidizing materials.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 10. Stability and reactivity

SureVector MBP E. coli Expression Tag (N-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector HIS6 E. coli Expression Tag (N-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector CBP E. coli Expression Tag (N-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector SBP E. coli Expression Tag (N-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector His-DsbA E. coli Expression Tag (N-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	Not available.

Section 11. Toxicological information

SureVector MBP E. coli Expression Tag (N-term)	Not available.
SureVector HIS6 E. coli Expression Tag (N-term)	Not available.
SureVector CBP E. coli Expression Tag (N-term)	Not available.
SureVector SBP E. coli Expression Tag (N-term)	Not available.
SureVector His-DsbA E. coli Expression Tag (N-term)	Not available.
SureVector LacZ Control (N-term)	Not available.

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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector MBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector HIS6 E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector CBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector SBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector His-DsbA E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector MBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector HIS6 E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector CBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector SBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector His-DsbA E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector LacZ Control (N-term)	No known significant effects or critical hazards.

Section 11. Toxicological information

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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector MBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector HIS6 E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector CBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector SBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector His-DsbA E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.
SureVector MBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector HIS6 E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector CBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector SBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector His-DsbA E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector LacZ Control (N-term)		No known significant effects or critical hazards.	

Symptoms related to the physical, chemical and toxicological characteristics

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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli	No specific data.

Section 11. Toxicological information

	Expression Tag (N-term)	
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific data.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli Expression Tag (N-term)	No specific data.
	SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term)	No specific data.
	SureVector MBP E. coli Expression Tag (N-term)	No specific data.
	SureVector HIS6 E. coli Expression Tag (N-term)	No specific data.
	SureVector CBP E. coli Expression Tag (N-term)	No specific data.
	SureVector SBP E. coli Expression Tag (N-term)	No specific data.
	SureVector His-DsbA E. coli	No specific data.

Section 11. Toxicological information

Expression Tag (N-term)
 SureVector LacZ Control (N-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.

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 GST E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector MBP E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector HIS6 E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector CBP E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector SBP E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector His-DsbA E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector LacZ Control (N-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 GST E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector MBP E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector HIS6 E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector CBP E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector SBP E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector His-DsbA E. coli Expression Tag (N-term) No known significant effects or critical hazards.
 SureVector LacZ Control (N-term) No known significant effects or critical hazards.

Section 11. Toxicological information

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 GST E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector MBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector HIS6 E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector CBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector SBP E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector His-DsbA E. coli Expression Tag (N-term)	No known significant effects or critical hazards.	
	SureVector LacZ Control (N-term)	No known significant effects or critical hazards.	
	Reproductive toxicity	: 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 GST E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector MBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector HIS6 E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector CBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector SBP E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector His-DsbA E. coli Expression Tag (N-term)		No known significant effects or critical hazards.	
SureVector LacZ Control (N-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

Section 12. Ecological information

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.

Section 15. Regulatory information

Canada	: Not determined.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
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.
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	: 12/03/2021
Date of previous issue	: 07/10/2019
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.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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