

SAFETY DATA SHEET



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

Section 1. Identification

1.1 Product identifier

Product name : 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

Validation date : 4/25/2017

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

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)

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status	: SureVector T7 E. coli Promoter	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector Tac E. coli Promoter	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector Rhamnose E. coli Promoter	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector GST E. coli Expression Tag (N-term)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector MBP E. coli Expression Tag (N-term)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector HIS6 E. coli Expression Tag (N-term)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector CBP E. coli Expression Tag (N-term)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector SBP E. coli Expression Tag (N-term)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector His-DsbA E. coli Expression Tag (N-term)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureVector LacZ Control (N-term)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to

Section 2. Hazards identification

the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

2.2 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.
SureVector CBP E. coli Expression Tag (N-term)	Not applicable.
SureVector SBP E. coli Expression Tag (N-term)	Not applicable.

Section 2. Hazards identification

	SureVector His-DsbA E. coli Expression Tag (N-term)	Not applicable.
	SureVector LacZ Control (N-term)	Not applicable.
Response	: <input checked="" type="checkbox"/> 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	: <input checked="" type="checkbox"/> 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	: <input checked="" type="checkbox"/> 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.

Section 2. Hazards identification

Supplemental label elements	:	<input checked="" type="checkbox"/> 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.

2.3 Other hazards

Hazards not otherwise classified	:	<input checked="" type="checkbox"/> 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
		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

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

Section 3. Composition/information on ingredients

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

4.1 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.
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

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	SureVector MBP E. coli Expression Tag (N-term)	attention if symptoms occur. 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.
Ingestion	: SureVector T7 E. coli Promoter	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector Tac E. coli Promoter	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and

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SureVector Rhamnose <i>E. coli</i> Promoter	<p>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.</p> <p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureVector GST <i>E. coli</i> Expression Tag (N-term)	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureVector MBP <i>E. coli</i> Expression Tag (N-term)	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureVector HIS6 <i>E. coli</i> Expression Tag (N-term)	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureVector CBP <i>E. coli</i> Expression Tag (N-term)	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureVector SBP <i>E. coli</i> Expression Tag (N-term)	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureVector His-DsbA <i>E. coli</i> Expression Tag (N-term)	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureVector LacZ Control (N-term)	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get</p>

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medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 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)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: 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)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: 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)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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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.

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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.	

4.3 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 Expression Tag (N-term)	Treat symptomatically. Contact poison treatment 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	Treat symptomatically. Contact poison treatment

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	Expression Tag (N-term)	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

5.1 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	Use an extinguishing agent suitable for the

Section 5. Fire-fighting measures

	Expression Tag (N-term)	surrounding fire.
	SureVector MBP E. coli	Use an extinguishing agent suitable for the
	Expression Tag (N-term)	surrounding fire.
	SureVector HIS6 E. coli	Use an extinguishing agent suitable for the
	Expression Tag (N-term)	surrounding fire.
	SureVector CBP E. coli	Use an extinguishing agent suitable for the
	Expression Tag (N-term)	surrounding fire.
	SureVector SBP E. coli	Use an extinguishing agent suitable for the
	Expression Tag (N-term)	surrounding fire.
	SureVector His-DsbA E. coli	Use an extinguishing agent suitable for the
	Expression Tag (N-term)	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	None known.
	Expression Tag (N-term)	
	SureVector MBP E. coli	None known.
	Expression Tag (N-term)	
	SureVector HIS6 E. coli	None known.
	Expression Tag (N-term)	
	SureVector CBP E. coli	None known.
	Expression Tag (N-term)	
	SureVector SBP E. coli	None known.
	Expression Tag (N-term)	
	SureVector His-DsbA E. coli	None known.
	Expression Tag (N-term)	
	SureVector LacZ Control (N-term)	None known.

5.2 Special hazards arising from the substance or mixture

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	In a fire or if heated, a pressure increase will occur and the container may burst.
	Expression Tag (N-term)	
	SureVector MBP E. coli	In a fire or if heated, a pressure increase will occur and the container may burst.
	Expression Tag (N-term)	
	SureVector HIS6 E. coli	In a fire or if heated, a pressure increase will occur and the container may burst.
	Expression Tag (N-term)	
	SureVector CBP E. coli	In a fire or if heated, a pressure increase will occur and the container may burst.
	Expression Tag (N-term)	
	SureVector SBP E. coli	In a fire or if heated, a pressure increase will occur and the container may burst.
	Expression Tag (N-term)	
	SureVector His-DsbA E. coli	In a fire or if heated, a pressure increase will occur and the container may burst.
	Expression Tag (N-term)	
	SureVector LacZ Control (N-term)	In a fire or if heated, a pressure increase will occur and the container may burst.

Section 5. Fire-fighting measures

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.

5.3 Advice for firefighters

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 without suitable training.
SureVector LacZ Control (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

Special protective equipment for fire-fighters

: SureVector T7 E. coli Promoter	without suitable training. 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)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: SureVector T7 E. coli Promoter	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureVector Tac E. coli Promoter	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureVector Rhamnose E. coli Promoter	No action shall be taken involving any personal risk or without suitable training. Evacuate

Section 6. Accidental release measures

SureVector GST E. coli Expression Tag (N-term)	surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal 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 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 information in "For non-emergency personnel".
SureVector GST E. coli	If specialized clothing is required to deal with the

Section 6. Accidental release measures

Expression Tag (N-term)	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".

6.2 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).
SureVector CBP E. coli	Avoid dispersal of spilled material and runoff and

Section 6. Accidental release measures

Expression Tag (N-term)	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).

6.3 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 <i>E. coli</i> 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 <i>E. coli</i> 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

7.1 Precautions for safe handling

Protective measures

: SureVector T7 <i>E. coli</i> Promoter	Put on appropriate personal protective equipment (see Section 8).
SureVector Tac <i>E. coli</i> Promoter	Put on appropriate personal protective equipment (see Section 8).
SureVector Rhamnose <i>E. coli</i> Promoter	Put on appropriate personal protective equipment (see Section 8).
SureVector GST <i>E. coli</i> Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector MBP <i>E. coli</i> Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector HIS6 <i>E. coli</i> Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector CBP <i>E. coli</i> Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector SBP <i>E. coli</i> Expression Tag (N-term)	Put on appropriate personal protective equipment (see Section 8).
SureVector His-DsbA <i>E. coli</i> 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 <i>E. coli</i> 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 <i>E. coli</i> 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

Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: SureVector T7 <i>E. coli</i> 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.
SureVector Tac <i>E. coli</i> 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.
SureVector Rhamnose <i>E. coli</i> 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.
SureVector GST <i>E. coli</i> 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.
SureVector MBP <i>E. coli</i> 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.
SureVector HIS6 <i>E. coli</i> 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

Section 7. Handling and storage

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

environmental contamination.

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.

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.

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.

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.

7.3 Specific end use(s)

Recommendations

- : SureVector T7 *E. coli* Promoter Industrial applications, Professional applications.
- SureVector Tac *E. coli* Promoter Industrial applications, Professional applications.
- SureVector Rhamnose *E. coli* Promoter Industrial applications, Professional applications.
- SureVector GST *E. coli* Expression Tag (N-term) Industrial applications, Professional applications.
- SureVector MBP *E. coli* Expression Tag (N-term) Industrial applications, Professional applications.
- SureVector HIS6 *E. coli* Expression Tag (N-term) Industrial applications, Professional applications.
- SureVector CBP *E. coli* Expression Tag (N-term) Industrial applications, Professional applications.
- SureVector SBP *E. coli* Expression Tag (N-term) Industrial applications, Professional applications.
- SureVector His-DsbA *E. coli* Industrial applications, Professional applications.

Section 7. Handling and storage

Industrial sector specific solutions	:	Expression Tag (N-term)	Industrial applications, Professional applications.
	:	SureVector LacZ Control (N-term)	Industrial applications, Professional applications.
	:	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.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

8.2 Exposure controls

Appropriate engineering controls

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

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: 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.

Section 8. Exposure controls/personal protection

- 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

9.1 Information on basic physical and chemical properties

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.
		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.

Section 9. Physical and chemical properties

	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.
	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	: 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)

Section 9. Physical and chemical properties

Boiling point	: 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 Expression Tag (N-term)	100°C (212°F)	
	SureVector MBP E. coli Expression Tag (N-term)	100°C (212°F)	
	SureVector HIS6 E. coli Expression Tag (N-term)	100°C (212°F)	
	SureVector CBP E. coli Expression Tag (N-term)	100°C (212°F)	
	SureVector SBP E. coli Expression Tag (N-term)	100°C (212°F)	
	SureVector His-DsbA E. coli Expression Tag (N-term)	100°C (212°F)	
	SureVector LacZ Control (N-term)	100°C (212°F)	
	Flash point	: SureVector T7 E. coli Promoter	Not available.
		SureVector Tac E. coli Promoter	Not available.
		SureVector Rhamnose E. coli Promoter	Not available.
		SureVector 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.	
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 (solid, gas)	: 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 LacZ Control (N-term)		Not applicable.	

Section 9. Physical and chemical properties

	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 explosive (flammable) limits	: 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.
Vapor pressure	: 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.
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.

Section 9. Physical and chemical properties

	SureVector LacZ Control (N-term)	Not available.
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 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

Auto-ignition 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 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.	
	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 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.	
Viscosity		: 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 10. Stability and reactivity

10.1 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.
10.2 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.
10.3 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 Expression Tag (N-term) 	<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.

Section 10. Stability and reactivity

SureVector LacZ Control (N-term) Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 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.

10.5 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.

10.6 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.
SureVector MBP 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 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

11.1 Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

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.
SureVector MBP E. coli Expression Tag (N-term)	Not available.
SureVector HIS6 E. coli	Not available.

Section 11. Toxicological information

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.

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.

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	No known significant effects or critical hazards.

Section 11. Toxicological information

	Expression Tag (N-term)	
	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 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 11. Toxicological information

Skin contact	: 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)	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Ingestion	: 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)	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: 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	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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Section 11. Toxicological information

	Expression Tag (N-term) SureVector SBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector His-DsbA E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) 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	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector MBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector HIS6 E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector CBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector SBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector His-DsbA E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector LacZ Control (N-term)	No known significant effects or critical hazards.
Mutagenicity	: SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
	SureVector Rhamnose E. coli Promoter	No known significant effects or critical hazards.
	SureVector GST E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector MBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector HIS6 E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector CBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector SBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector His-DsbA E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector LacZ Control (N-term)	No known significant effects or critical hazards.
Teratogenicity	: 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	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector MBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector HIS6 E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector CBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector SBP E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector His-DsbA E. coli	No known significant effects or critical hazards.
	Expression Tag (N-term) SureVector LacZ Control (N-term)	No known significant effects or critical hazards.

Section 11. Toxicological information

Developmental effects	: 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.	
	Fertility effects	: 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

Not available.

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Section 12. Ecological information

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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

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

Section 14. Transport information

Regulatory information

DOT / IMDG / IATA : Not regulated.

Section 15. Regulatory information

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

U.S. Federal regulations : **United States inventory (TSCA 8b)**: All components are listed or exempted.
Clean Water Act (CWA) 311: Edetic acid

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Section 15. Regulatory information

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

No products were found.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada inventory : Not determined.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

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

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Turkey : Not determined.

Section 16. Other information

History

Date of issue : 04/25/2017
Date of previous issue : 06/30/2015.
Version : 2

✔ Indicates information that has changed from previously issued version.

Notice to reader

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