

SAFETY DATA SHEET



Complete Control Inducible Mammalian Expression System, Part Number 217468

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	:	Complete Control Inducible Mammalian Expression System, Part Number 217468
Part No. (Kit)	:	217468
Part No.	:	Ponasterone A 217467-51
		pERV3 Receptor Vector 217460-51
		pEGSH Expression Vector 217461-51
		pEGSH-Luc Vector (Positive Control) 217462-51
		pEGSH Forward Primer Lyophilized 217466-53
		T3 20-mer Primer Lyophilized 300301-71
		XL1-Blue E. coli Strain 200268-81

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

Identified uses	
Analytical reagent.	
Ponasterone A	1 mg
pERV3 Receptor Vector	0.1 ml (100 µg 1 µg/µl)
pEGSH Expression Vector	0.02 ml (20 µg 1 µg/µl)
pEGSH-Luc Vector (Positive Control)	0.02 ml (20 µg 1 µg/µl)
pEGSH Forward Primer Lyophilized	2.5 µg
T3 20-mer Primer Lyophilized	2.5 µg
XL1-Blue E. coli Strain	0.5 ml (500 µl)

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	Ponasterone A	Mono-constituent substance
		pERV3 Receptor Vector	Mixture
		pEGSH Expression Vector	Mixture
		pEGSH-Luc Vector (Positive Control)	Mixture
		pEGSH Forward Primer	Mixture

Date of issue/Date of revision : 23/01/2018

SECTION 2: Hazards identification

Lyophilized
T3 20-mer Primer Mixture
Lyophilized
XL1-Blue E. coli Strain Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

pEGSH Forward Primer

Lyophilized

H315 SKIN CORROSION/IRRITATION - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H335 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

T3 20-mer Primer Lyophilized

H315 SKIN CORROSION/IRRITATION - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H335 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

Ingredients of unknown toxicity : pEGSH Forward Primer Lyophilized Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: > 60%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: > 60%
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: > 60%
T3 20-mer Primer Lyophilized Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: > 60%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: > 60%
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: > 60%
XL1-Blue E. coli Strain Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%

Ingredients of unknown ecotoxicity : pEGSH Forward Primer Lyophilized Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 86%
T3 20-mer Primer Lyophilized Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 86%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms

: pEGSH Forward Primer Lyophilized



T3 20-mer Primer Lyophilized



Signal word

: Ponasterone A No signal word.
pERV3 Receptor Vector No signal word.
pEGSH Expression Vector No signal word.
pEGSH-Luc Vector (Positive Control) No signal word.
pEGSH Forward Primer Lyophilized Warning
T3 20-mer Primer Warning

SECTION 2: Hazards identification

	Lyophilized XL1-Blue E. coli Strain	No signal word.
Hazard statements	: Ponasterone A	No known significant effects or critical hazards.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer Lyophilized	H319 - Causes serious eye irritation. H315 - Causes skin irritation. H335 - May cause respiratory irritation.
	T3 20-mer Primer Lyophilized	H319 - Causes serious eye irritation. H315 - Causes skin irritation. H335 - May cause respiratory irritation.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Ponasterone A	Not applicable.
	pERV3 Receptor Vector	Not applicable.
	pEGSH Expression Vector	Not applicable.
	pEGSH-Luc Vector (Positive Control)	Not applicable.
	pEGSH Forward Primer Lyophilized	P280 - Wear protective gloves. Wear eye or face protection. P261 - Avoid breathing dust.
	T3 20-mer Primer Lyophilized	P280 - Wear protective gloves. Wear eye or face protection. P261 - Avoid breathing dust.
	XL1-Blue E. coli Strain	Not applicable.
Response	: Ponasterone A	Not applicable.
	pERV3 Receptor Vector	Not applicable.
	pEGSH Expression Vector	Not applicable.
	pEGSH-Luc Vector (Positive Control)	Not applicable.
	pEGSH Forward Primer Lyophilized	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
	T3 20-mer Primer Lyophilized	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
	XL1-Blue E. coli Strain	Not applicable.
Storage	: Ponasterone A	Not applicable.
	pERV3 Receptor Vector	Not applicable.
	pEGSH Expression Vector	Not applicable.
	pEGSH-Luc Vector (Positive Control)	Not applicable.
	pEGSH Forward Primer Lyophilized	P405 - Store locked up.
	T3 20-mer Primer Lyophilized	P405 - Store locked up.
	XL1-Blue E. coli Strain	Not applicable.

SECTION 2: Hazards identification

Disposal	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	Not applicable. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable.
Hazardous ingredients	: pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	- 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride - 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Not applicable.
Supplemental label elements	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Special packaging requirements		
Tactile warning of danger	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer	May form explosible dust-air mixture if dispersed. None known. None known. None known. None known.

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SECTION 2: Hazards identification

Lyophilized
T3 20-mer Primer None known.
Lyophilized
XL1-Blue E. coli Strain None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	Ponasterone A	Mono-constituent substance
		pERV3 Receptor Vector	Mixture
		pEGSH Expression Vector	Mixture
		pEGSH-Luc Vector (Positive Control)	Mixture
		pEGSH Forward Primer	Mixture
		Lyophilized	
		T3 20-mer Primer Lyophilized	Mixture
		XL1-Blue E. coli Strain	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Ponasterone A (2beta,3beta,5beta,22r)-2,3,14,20,22-Pentahydroxycholest-7-en-6-one	CAS: 13408-56-5	100	Not classified.	[A]
pEGSH Forward Primer Lyophilized 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≥75 - ≤90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Edetic acid	EC: 200-449-4 CAS: 60-00-4 Index: 607-429-00-8	≤5	Eye Irrit. 2, H319	[1]
T3 20-mer Primer Lyophilized 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≥75 - ≤90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Edetic acid	EC: 200-449-4 CAS: 60-00-4 Index: 607-429-00-8	≤5	Eye Irrit. 2, H319	[1]
XL1-Blue E. coli Strain Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional 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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 3: Composition/information on ingredients

[A] Constituent

[B] Impurity

[C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Ponasterone A	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.
	pERV3 Receptor Vector	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.
	pEGSH Expression Vector	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.
	pEGSH-Luc Vector (Positive Control)	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.
	pEGSH Forward Primer Lyophilized	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	T3 20-mer Primer Lyophilized	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Ponasterone A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pERV3 Receptor Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pEGSH Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pEGSH-Luc Vector (Positive Control)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pEGSH Forward Primer Lyophilized	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	T3 20-mer Primer Lyophilized	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide

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artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

XL1-Blue E. coli Strain

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

: Ponasterone A

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pERV3 Receptor Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pEGSH Expression Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pEGSH-Luc Vector (Positive Control)

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pEGSH Forward Primer Lyophilized

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

T3 20-mer Primer Lyophilized

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

XL1-Blue E. coli Strain

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

: Ponasterone A

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.

pERV3 Receptor Vector

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.

pEGSH Expression Vector

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.

pEGSH-Luc Vector (Positive Control)

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.

pEGSH Forward Primer

Wash out mouth with water. Remove dentures if any.

SECTION 4: First aid measures

Lyophilized	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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
T3 20-mer Primer Lyophilized	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
XL1-Blue E. coli Strain	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.
Protection of first-aiders : Ponasterone A	No action shall be taken involving any personal risk or without suitable training.
pERV3 Receptor Vector	No action shall be taken involving any personal risk or without suitable training.
pEGSH Expression Vector	No action shall be taken involving any personal risk or without suitable training.
pEGSH-Luc Vector (Positive Control)	No action shall be taken involving any personal risk or without suitable training.
pEGSH Forward Primer Lyophilized	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
T3 20-mer Primer Lyophilized	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
XL1-Blue E. coli Strain	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

SECTION 4: First aid measures

Eye contact	: Ponasterone A	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer Lyophilized	Causes serious eye irritation.
	T3 20-mer Primer Lyophilized	Causes serious eye irritation.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Inhalation	: Ponasterone A	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer Lyophilized	May cause respiratory irritation.
	T3 20-mer Primer Lyophilized	May cause respiratory irritation.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Skin contact	: Ponasterone A	No known significant effects or critical hazards.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer Lyophilized	Causes skin irritation.
	T3 20-mer Primer Lyophilized	Causes skin irritation.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Ingestion	: Ponasterone A	No known significant effects or critical hazards.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer Lyophilized	No known significant effects or critical hazards.
	T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Ponasterone A	Adverse symptoms may include the following: irritation redness
	pERV3 Receptor Vector	No specific data.
	pEGSH Expression Vector	No specific data.
	pEGSH-Luc Vector (Positive Control)	No specific data.
	pEGSH Forward Primer Lyophilized	Adverse symptoms may include the following: pain or irritation watering

SECTION 4: First aid measures

Inhalation	T3 20-mer Primer Lyophilized	redness Adverse symptoms may include the following: pain or irritation watering redness
	XL1-Blue E. coli Strain	No specific data.
	: Ponasterone A	Adverse symptoms may include the following: respiratory tract irritation coughing
	pERV3 Receptor Vector pEGSH Expression Vector	No specific data. No specific data.
	pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	T3 20-mer Primer Lyophilized	Adverse symptoms may include the following: respiratory tract irritation coughing
	XL1-Blue E. coli Strain	No specific data.
	: Ponasterone A	No specific data.
	pERV3 Receptor Vector pEGSH Expression Vector	No specific data. No specific data.
	pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized	No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	T3 20-mer Primer Lyophilized	Adverse symptoms may include the following: irritation redness
	XL1-Blue E. coli Strain	No specific data.
	: Ponasterone A	No specific data.
	pERV3 Receptor Vector pEGSH Expression Vector	No specific data. No specific data.
	pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized	No specific data. No specific data.
T3 20-mer Primer Lyophilized	No specific data.	
XL1-Blue E. coli Strain	No specific data.	

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Ponasterone A	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pERV3 Receptor Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pEGSH Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pEGSH-Luc Vector (Positive Control)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Specific treatments	pEGSH Forward Primer Lyophilized	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	T3 20-mer Primer Lyophilized	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	XL1-Blue E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: Ponasterone A	No specific treatment.
	pERV3 Receptor Vector	No specific treatment.
	pEGSH Expression Vector	No specific treatment.
	pEGSH-Luc Vector (Positive Control)	No specific treatment.
	pEGSH Forward Primer Lyophilized	No specific treatment.
	T3 20-mer Primer Lyophilized	No specific treatment.
	XL1-Blue E. coli Strain	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Ponasterone A	Use dry chemical powder.
	pERV3 Receptor Vector	Use an extinguishing agent suitable for the surrounding fire.
	pEGSH Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
	pEGSH-Luc Vector (Positive Control)	Use an extinguishing agent suitable for the surrounding fire.
	pEGSH Forward Primer Lyophilized	Use an extinguishing agent suitable for the surrounding fire.
	T3 20-mer Primer Lyophilized	Use an extinguishing agent suitable for the surrounding fire.
	XL1-Blue E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	: Ponasterone A
pERV3 Receptor Vector		None known.
pEGSH Expression Vector		None known.
pEGSH-Luc Vector (Positive Control)		None known.
pEGSH Forward Primer Lyophilized		None known.
T3 20-mer Primer Lyophilized		None known.
XL1-Blue E. coli Strain		None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Ponasterone A	May form explosible dust-air mixture if dispersed.
	pERV3 Receptor Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pEGSH Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pEGSH-Luc Vector (Positive Control)	In a fire or if heated, a pressure increase will occur and the container may burst.
	pEGSH Forward Primer Lyophilized	No specific fire or explosion hazard.
	T3 20-mer Primer Lyophilized	No specific fire or explosion hazard.
	XL1-Blue E. coli Strain	In a fire or if heated, a pressure increase will occur and the

SECTION 5: Firefighting measures

Hazardous combustion products	: Ponasterone A	container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide
	pERV3 Receptor Vector	No specific data.
	pEGSH Expression Vector	No specific data.
	pEGSH-Luc Vector (Positive Control)	No specific data.
	pEGSH Forward Primer Lyophilized	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds
	T3 20-mer Primer Lyophilized	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds
	XL1-Blue E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
5.3 Advice for firefighters		
Special precautions for fire-fighters	: Ponasterone A	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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	pERV3 Receptor Vector	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.
	pEGSH Expression Vector	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.
	pEGSH-Luc Vector (Positive Control)	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.
	pEGSH Forward Primer Lyophilized	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.
	T3 20-mer Primer Lyophilized	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.
	XL1-Blue E. coli Strain	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Ponasterone A	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	pERV3 Receptor Vector	Fire-fighters should wear appropriate protective equipment

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pEGSH Expression Vector	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
pEGSH-Luc Vector (Positive Control)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
pEGSH Forward Primer Lyophilized	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
T3 20-mer Primer Lyophilized	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
XL1-Blue E. coli Strain	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Ponasterone A	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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	pERV3 Receptor Vector	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 spilt material. Put on appropriate personal protective equipment.
	pEGSH Expression Vector	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 spilt material. Put on appropriate personal protective equipment.
	pEGSH-Luc Vector (Positive Control)	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 spilt material. Put on appropriate personal protective equipment.
	pEGSH Forward Primer	No action shall be taken involving any personal risk or

SECTION 6: Accidental release measures

	Lyophilized	without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	T3 20-mer Primer Lyophilized	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 spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	XL1-Blue E. coli Strain	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: Ponasterone A	If specialised 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".
	pERV3 Receptor Vector	If specialised 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".
	pEGSH Expression Vector	If specialised 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".
	pEGSH-Luc Vector (Positive Control)	If specialised 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".
	pEGSH Forward Primer Lyophilized	If specialised 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".
	T3 20-mer Primer Lyophilized	If specialised 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".
	XL1-Blue E. coli Strain	If specialised 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	: Ponasterone A
pERV3 Receptor Vector		Avoid dispersal of spilt 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).
pEGSH Expression Vector		Avoid dispersal of spilt 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).
pEGSH-Luc Vector (Positive Control)		Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

SECTION 6: Accidental release measures

	authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
pEGSH Forward Primer Lyophilized	Avoid dispersal of spilt 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).
T3 20-mer Primer Lyophilized	Avoid dispersal of spilt 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).
XL1-Blue E. coli Strain	Avoid dispersal of spilt 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 material for containment and cleaning up

Methods for cleaning up : Ponasterone A

	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
pERV3 Receptor Vector	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.
pEGSH Expression Vector	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.
pEGSH-Luc Vector (Positive Control)	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.
pEGSH Forward Primer Lyophilized	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
T3 20-mer Primer Lyophilized	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
XL1-Blue E. coli Strain	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Ponasterone A

Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

pERV3 Receptor Vector

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

pEGSH Expression Vector

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

pEGSH-Luc Vector (Positive Control)

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

pEGSH Forward Primer Lyophilized

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

T3 20-mer Primer Lyophilized

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

XL1-Blue E. coli Strain

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

Advice on general occupational hygiene : Ponasterone A

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.

pERV3 Receptor Vector

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.

pEGSH Expression Vector

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.

pEGSH-Luc Vector (Positive Control)

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 7: Handling and storage

pEGSH Forward Primer Lyophilized	Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
T3 20-mer Primer Lyophilized	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.
XL1-Blue E. coli Strain	Potentially biohazardous material. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: Ponasterone A	Storage temperature: -20°C (-4°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pERV3 Receptor Vector	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pEGSH Expression Vector	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pEGSH-Luc Vector (Positive Control)	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 unlabelled containers. Use

SECTION 7: Handling and storage

pEGSH Forward Primer Lyophilized	appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
T3 20-mer Primer Lyophilized	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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
XL1-Blue E. coli Strain	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

: Ponasterone A	Industrial applications, Professional applications.
pERV3 Receptor Vector	Industrial applications, Professional applications.
pEGSH Expression Vector	Industrial applications, Professional applications.
pEGSH-Luc Vector (Positive Control)	Industrial applications, Professional applications.
pEGSH Forward Primer Lyophilized	Industrial applications, Professional applications.
T3 20-mer Primer Lyophilized	Industrial applications, Professional applications.
XL1-Blue E. coli Strain	Industrial applications, Professional applications.

Industrial sector specific solutions

: Ponasterone A	Not applicable.
pERV3 Receptor Vector	Not applicable.
pEGSH Expression Vector	Not applicable.
pEGSH-Luc Vector (Positive Control)	Not applicable.
pEGSH Forward Primer Lyophilized	Not applicable.
T3 20-mer Primer Lyophilized	Not applicable.
XL1-Blue E. coli Strain	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
XL1-Blue E. coli Strain Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Handle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 8: Exposure controls/personal protection

- 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.
- 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Ponasterone A	Solid. [Powder.]
	pERV3 Receptor Vector	Liquid.
	pEGSH Expression Vector	Liquid.
	pEGSH-Luc Vector (Positive Control)	Liquid.
	pEGSH Forward Primer Lyophilized	Solid. [lyophilised]
	T3 20-mer Primer Lyophilized	Solid. [lyophilised]
	XL1-Blue E. coli Strain	Liquid.
	Colour	: Ponasterone A
pERV3 Receptor Vector		Not available.
pEGSH Expression Vector		Not available.
pEGSH-Luc Vector (Positive Control)		Not available.
pEGSH Forward Primer Lyophilized		Not available.
T3 20-mer Primer Lyophilized		Not available.
XL1-Blue E. coli Strain		Not available.
Odour		: Ponasterone A
	pERV3 Receptor Vector	Not available.
	pEGSH Expression Vector	Not available.
	pEGSH-Luc Vector (Positive Control)	Not available.
	pEGSH Forward Primer Lyophilized	Not available.
	T3 20-mer Primer Lyophilized	Not available.
	XL1-Blue E. coli Strain	Not available.
	Odour threshold	: Ponasterone A
pERV3 Receptor Vector		Not available.
pEGSH Expression Vector		Not available.
pEGSH-Luc Vector (Positive Control)		Not available.
pEGSH Forward Primer Lyophilized		Not available.
T3 20-mer Primer Lyophilized		Not available.
XL1-Blue E. coli Strain		Not available.

SECTION 9: Physical and chemical properties

pH	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	7.5
		pEGSH Expression Vector	7.5
		pEGSH-Luc Vector (Positive Control)	7.5
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	7.5
Melting point/freezing point	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	0°C
		pEGSH Expression Vector	0°C
		pEGSH-Luc Vector (Positive Control)	0°C
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not available.
Initial boiling point and boiling range	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	100°C
		pEGSH Expression Vector	100°C
		pEGSH-Luc Vector (Positive Control)	100°C
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not available.
Flash point	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	Not available.
		pEGSH Expression Vector	Not available.
		pEGSH-Luc Vector (Positive Control)	Not available.
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not available.
Evaporation rate	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	Not available.
		pEGSH Expression Vector	Not available.
		pEGSH-Luc Vector (Positive Control)	Not available.
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not available.

SECTION 9: Physical and chemical properties

Flammability (solid, gas)	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	Not applicable.
		pEGSH Expression Vector	Not applicable.
		pEGSH-Luc Vector (Positive Control)	Not applicable.
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not applicable.
Upper/lower flammability or explosive limits	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	Not available.
		pEGSH Expression Vector	Not available.
		pEGSH-Luc Vector (Positive Control)	Not available.
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not available.
Vapour pressure	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	Not available.
		pEGSH Expression Vector	Not available.
		pEGSH-Luc Vector (Positive Control)	Not available.
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not available.
Vapour density	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	Not available.
		pEGSH Expression Vector	Not available.
		pEGSH-Luc Vector (Positive Control)	Not available.
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not available.
Relative density	:	Ponasterone A	Not available.
		pERV3 Receptor Vector	Not available.
		pEGSH Expression Vector	Not available.
		pEGSH-Luc Vector (Positive Control)	Not available.
		pEGSH Forward Primer Lyophilized	Not available.
		T3 20-mer Primer Lyophilized	Not available.
		XL1-Blue E. coli Strain	Not available.

SECTION 9: Physical and chemical properties

Solubility(ies)	: Ponasterone A	Easily soluble in the following materials: methanol. Insoluble in the following materials: cold water and hot water.
	pERV3 Receptor Vector	Easily soluble in the following materials: cold water and hot water.
	pEGSH Expression Vector	Easily soluble in the following materials: cold water and hot water.
	pEGSH-Luc Vector (Positive Control)	Easily soluble in the following materials: cold water and hot water.
	pEGSH Forward Primer Lyophilized	Soluble in the following materials: cold water and hot water.
	T3 20-mer Primer Lyophilized	Soluble in the following materials: cold water and hot water.
	XL1-Blue E. coli Strain	Soluble in the following materials: cold water and hot water.
	Partition coefficient: n-octanol/water	: Ponasterone A
pERV3 Receptor Vector		Not available.
pEGSH Expression Vector		Not available.
pEGSH-Luc Vector (Positive Control)		Not available.
pEGSH Forward Primer Lyophilized		Not available.
T3 20-mer Primer Lyophilized		Not available.
XL1-Blue E. coli Strain		Not available.
Auto-ignition temperature		: Ponasterone A
	pERV3 Receptor Vector	Not available.
	pEGSH Expression Vector	Not available.
	pEGSH-Luc Vector (Positive Control)	Not available.
	pEGSH Forward Primer Lyophilized	Not available.
	T3 20-mer Primer Lyophilized	Not available.
	XL1-Blue E. coli Strain	Not available.
	Decomposition temperature	: Ponasterone A
pERV3 Receptor Vector		Not available.
pEGSH Expression Vector		Not available.
pEGSH-Luc Vector (Positive Control)		Not available.
pEGSH Forward Primer Lyophilized		Not available.
T3 20-mer Primer Lyophilized		Not available.
XL1-Blue E. coli Strain		Not available.
Viscosity		: Ponasterone A
	pERV3 Receptor Vector	Not available.
	pEGSH Expression Vector	Not available.
	pEGSH-Luc Vector (Positive Control)	Not available.
	pEGSH Forward Primer Lyophilized	Not available.
	T3 20-mer Primer Lyophilized	Not available.
	XL1-Blue E. coli Strain	Not available.

SECTION 9: Physical and chemical properties

Explosive properties	:	Ponasterone A	Not available.	
		pERV3 Receptor Vector	Not available.	
		pEGSH Expression Vector	Not available.	
		pEGSH-Luc Vector (Positive Control)	Not available.	
		pEGSH Forward Primer Lyophilized	Not available.	
		T3 20-mer Primer Lyophilized	Not available.	
		XL1-Blue E. coli Strain	Not available.	
	Oxidising properties	:	Ponasterone A	Not available.
			pERV3 Receptor Vector	Not available.
			pEGSH Expression Vector	Not available.
		pEGSH-Luc Vector (Positive Control)	Not available.	
		pEGSH Forward Primer Lyophilized	Not available.	
		T3 20-mer Primer Lyophilized	Not available.	
		XL1-Blue E. coli Strain	Not available.	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	Ponasterone A	No specific test data related to reactivity available for this product or its ingredients.
		pERV3 Receptor Vector	No specific test data related to reactivity available for this product or its ingredients.
		pEGSH Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
		pEGSH-Luc Vector (Positive Control)	No specific test data related to reactivity available for this product or its ingredients.
		pEGSH Forward Primer Lyophilized	No specific test data related to reactivity available for this product or its ingredients.
		T3 20-mer Primer Lyophilized	No specific test data related to reactivity available for this product or its ingredients.
		XL1-Blue E. coli Strain	No specific test data related to reactivity available for this product or its ingredients.
	10.2 Chemical stability	:	Ponasterone A
		pERV3 Receptor Vector	The product is stable.
		pEGSH Expression Vector	The product is stable.
		pEGSH-Luc Vector (Positive Control)	The product is stable.
		pEGSH Forward Primer Lyophilized	The product is stable.
		T3 20-mer Primer Lyophilized	The product is stable.
		XL1-Blue E. coli Strain	The product is stable.

SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
10.5 Incompatible materials	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	Reactive or incompatible with the following materials: oxidizing materials May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: Ponasterone A pERV3 Receptor Vector pEGSH Expression Vector pEGSH-Luc Vector (Positive Control) pEGSH Forward Primer Lyophilized T3 20-mer Primer Lyophilized XL1-Blue E. coli Strain	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
XL1-Blue E. coli Strain Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
XL1-Blue E. coli Strain Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
pEGSH Forward Primer Lyophilized 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
T3 20-mer Primer Lyophilized 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Ponasterone A	Not available.
pERV3 Receptor Vector	Not available.
pEGSH Expression Vector	Not available.
pEGSH-Luc Vector (Positive Control)	Not available.
pEGSH Forward Primer Lyophilized	Routes of entry anticipated: Oral, Dermal, Inhalation.
T3 20-mer Primer Lyophilized	Routes of entry anticipated: Oral, Dermal, Inhalation.
XL1-Blue E. coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation	: Ponasterone A	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer	May cause respiratory irritation.

SECTION 11: Toxicological information

	Lyophilized T3 20-mer Primer	May cause respiratory irritation.
Ingestion	Lyophilized XL1-Blue E. coli Strain	No known significant effects or critical hazards.
	: Ponasterone A	No known significant effects or critical hazards.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer	No known significant effects or critical hazards.
Skin contact	Lyophilized T3 20-mer Primer	No known significant effects or critical hazards.
	Lyophilized XL1-Blue E. coli Strain	No known significant effects or critical hazards.
	: Ponasterone A	No known significant effects or critical hazards.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
Eye contact	pEGSH Forward Primer	Causes skin irritation.
	Lyophilized T3 20-mer Primer	Causes skin irritation.
	Lyophilized XL1-Blue E. coli Strain	No known significant effects or critical hazards.
	: Ponasterone A	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer	Causes serious eye irritation.
	Lyophilized T3 20-mer Primer	Causes serious eye irritation.
	Lyophilized XL1-Blue E. coli Strain	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Ponasterone A	Adverse symptoms may include the following: respiratory tract irritation coughing
	pERV3 Receptor Vector	No specific data.
	pEGSH Expression Vector	No specific data.
	pEGSH-Luc Vector (Positive Control)	No specific data.
	pEGSH Forward Primer	Adverse symptoms may include the following: respiratory tract irritation coughing
	Lyophilized T3 20-mer Primer	Adverse symptoms may include the following: respiratory tract irritation coughing
	Lyophilized XL1-Blue E. coli Strain	No specific data.

SECTION 11: Toxicological information

Ingestion	:	Ponasterone A	No specific data.
		pERV3 Receptor Vector	No specific data.
		pEGSH Expression Vector	No specific data.
		pEGSH-Luc Vector (Positive Control)	No specific data.
		pEGSH Forward Primer Lyophilized	No specific data.
		T3 20-mer Primer Lyophilized	No specific data.
Skin contact	:	Ponasterone A	No specific data.
		pERV3 Receptor Vector	No specific data.
		pEGSH Expression Vector	No specific data.
		pEGSH-Luc Vector (Positive Control)	No specific data.
		pEGSH Forward Primer Lyophilized	Adverse symptoms may include the following: irritation redness
		T3 20-mer Primer Lyophilized	Adverse symptoms may include the following: irritation redness
Eye contact	:	XL1-Blue E. coli Strain	No specific data.
	:	Ponasterone A	Adverse symptoms may include the following: irritation redness
		pERV3 Receptor Vector	No specific data.
		pEGSH Expression Vector	No specific data.
		pEGSH-Luc Vector (Positive Control)	No specific data.
		pEGSH Forward Primer Lyophilized	Adverse symptoms may include the following: pain or irritation watering redness
	T3 20-mer Primer Lyophilized	Adverse symptoms may include the following: pain or irritation watering redness	
	XL1-Blue E. coli Strain	No specific data.	

Delayed and immediate effects as well as 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

SECTION 11: Toxicological information

General	:	Ponasterone A	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
		pERV3 Receptor Vector	No known significant effects or critical hazards.
		pEGSH Expression Vector	No known significant effects or critical hazards.
		pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
		pEGSH Forward Primer Lyophilized	No known significant effects or critical hazards.
		T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Carcinogenicity	:	Ponasterone A	No known significant effects or critical hazards.
		pERV3 Receptor Vector	No known significant effects or critical hazards.
		pEGSH Expression Vector	No known significant effects or critical hazards.
		pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
		pEGSH Forward Primer Lyophilized	No known significant effects or critical hazards.
		T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Mutagenicity	:	Ponasterone A	No known significant effects or critical hazards.
		pERV3 Receptor Vector	No known significant effects or critical hazards.
		pEGSH Expression Vector	No known significant effects or critical hazards.
		pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
		pEGSH Forward Primer Lyophilized	No known significant effects or critical hazards.
		T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Teratogenicity	:	Ponasterone A	No known significant effects or critical hazards.
		pERV3 Receptor Vector	No known significant effects or critical hazards.
		pEGSH Expression Vector	No known significant effects or critical hazards.
		pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
		pEGSH Forward Primer Lyophilized	No known significant effects or critical hazards.
		T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.
Developmental effects	:	Ponasterone A	No known significant effects or critical hazards.
		pERV3 Receptor Vector	No known significant effects or critical hazards.
		pEGSH Expression Vector	No known significant effects or critical hazards.
		pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
		pEGSH Forward Primer Lyophilized	No known significant effects or critical hazards.
		T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
		XL1-Blue E. coli Strain	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Fertility effects	: Ponasterone A	No known significant effects or critical hazards.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
	pEGSH Expression Vector	No known significant effects or critical hazards.
	pEGSH-Luc Vector (Positive Control)	No known significant effects or critical hazards.
	pEGSH Forward Primer Lyophilized	No known significant effects or critical hazards.
	T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
pEGSH Forward Primer Lyophilized Edetic acid	Acute EC50 113000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 41000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
T3 20-mer Primer Lyophilized Edetic acid	Acute EC50 113000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 41000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
XL1-Blue E. coli Strain Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days	
Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks	

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
pEGSH Forward Primer Lyophilized Edetic acid	-	-	Not readily
T3 20-mer Primer Lyophilized Edetic acid	-	-	Not readily

12.3 Bioaccumulative potential

Complete Control Inducible Mammalian Expression System, Part Number 217468

SECTION 12: Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
pEGSH Forward Primer Lyophilized Edetic acid	-3.86	1.8	low
T3 20-mer Primer Lyophilized Edetic acid	-3.86	1.8	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Ponasterone A	Not applicable.
	pERV3 Receptor Vector	Not applicable.
	pEGSH Expression Vector	Not applicable.
	pEGSH-Luc Vector (Positive Control)	Not applicable.
	pEGSH Forward Primer Lyophilized	Not applicable.
	T3 20-mer Primer Lyophilized	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

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	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.

SECTION 15: Regulatory information

Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
pEGSH Forward Primer Lyophilized Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	Calculation method Calculation method Calculation method
T3 20-mer Primer Lyophilized Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

pEGSH Forward Primer Lyophilized H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
T3 20-mer Primer Lyophilized H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
XL1-Blue E. coli Strain H319	Causes serious eye irritation.

Full text of classifications [CLP/GHS]

pEGSH Forward Primer Lyophilized Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
T3 20-mer Primer Lyophilized Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
XL1-Blue E. coli Strain Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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SECTION 16: Other information

Date of issue/ Date of revision : 23/01/2018

Date of previous issue : No previous validation.

Version : 1

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