

SAFETY DATA SHEET

Complete Control Inducible Mammalian Expression System, Part Number 217468

Section 1. Identification

Product identifier	: Complete Control Inducible Mammalian Expression System, Part Number 217468
Part no. (chemical 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
Material 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 0.0025 mg T3 20-mer Primer Lyophilized 0.0025 mg XL1-Blue E. coli Strain 0.5 ml (500 µl)
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
Emergency telephone number (with hours of operation)	: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Ponasterone A

COMBUSTIBLE DUSTS - Category 1

pEGSH Forward Primer Lyophilized

H315 SKIN IRRITATION - Category 2
H319 EYE IRRITATION - Category 2A
H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

T3 20-mer Primer Lyophilized

H315 SKIN IRRITATION - Category 2
H319 EYE IRRITATION - Category 2A
H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

XL1-Blue E. coli Strain

H319 EYE IRRITATION - Category 2A

Section 2. Hazard identification

GHS label elements

Hazard pictograms

: pEGSH Forward Primer
Lyophilized



T3 20-mer Primer Lyophilized



XL1-Blue E. coli Strain



Signal word

: Ponasterone A	Warning
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 Lyophilized	Warning
XL1-Blue E. coli Strain	Warning

Hazard statements

: Ponasterone A	May form combustible dust concentrations in air.
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	H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys)
T3 20-mer Primer Lyophilized	H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys)
XL1-Blue E. coli Strain	H319 - Causes serious eye irritation.

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 eye or face protection. P260 - Do not breathe dust.
T3 20-mer Primer Lyophilized	P280 - Wear eye or face protection. P260 - Do not breathe dust.
XL1-Blue E. coli Strain	P280 - Wear eye or face protection.

Section 2. Hazard identification

Response	: Ponasterone A	Not applicable.
	pERV3 Receptor Vector	Not applicable.
	pEGSH Expression Vector	Not applicable.
	pEGSH-Luc Vector (Positive Control)	Not applicable.
Storage	pEGSH Forward Primer Lyophilized	P314 - Get medical advice or attention if you feel unwell.
	T3 20-mer Primer Lyophilized	P314 - Get medical advice or attention if you feel unwell.
	XL1-Blue E. coli Strain	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	: Ponasterone A	Not applicable.
Disposal	pERV3 Receptor Vector	Not applicable.
	pEGSH Expression Vector	Not applicable.
	pEGSH-Luc Vector (Positive Control)	Not applicable.
	pEGSH Forward Primer Lyophilized	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Supplemental label elements	T3 20-mer Primer Lyophilized	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
	XL1-Blue E. coli Strain	Not applicable.
	: Ponasterone A	Not applicable.
	pERV3 Receptor Vector	Not applicable.
Supplemental label elements	pEGSH Expression Vector	Not applicable.
	pEGSH-Luc Vector (Positive Control)	Not applicable.
	pEGSH Forward Primer Lyophilized	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	T3 20-mer Primer Lyophilized	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	XL1-Blue E. coli Strain	Not applicable.
	: Ponasterone A	Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.
	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.	
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%	

Section 2. Hazard identification

Other hazards which do not result in classification	Ponasterone A	None known.
	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.

Section 3. Composition/information on ingredients

Substance/mixture	Ponasterone A	Substance
	pERV3 Receptor Vector	Mixture
	pEGSH Expression Vector	Mixture
	pEGSH-Luc Vector (Positive Control)	Mixture
	pEGSH Forward Primer Lyophilized	Mixture
	T3 20-mer Primer Lyophilized	Mixture
	XL1-Blue E. coli Strain	Mixture

Ingredient name	% (w/w)	CAS number
Ponasterone A (2beta,3beta,5beta,22r)-2,3,14,20,22-Pentahydroxycholest-7-en-6-one	80 - 100	13408-56-5
pEGSH Forward Primer Lyophilized 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Edetic acid	80 - 100 1 - 5	1185-53-1 60-00-4
T3 20-mer Primer Lyophilized 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Edetic acid	80 - 100 1 - 5	1185-53-1 60-00-4
XL1-Blue E. coli Strain Glycerol Sodium chloride	10 - 30 0.1 - 1	56-81-5 7647-14-5

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.

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

Section 4. First-aid measures

Description of necessary 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. Continue to rinse for at least 10 minutes. 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.

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	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.
	XL1-Blue E. coli Strain	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Ponasterone A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	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 artificial

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		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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Ponasterone A	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Ponasterone A	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

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	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.
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 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 following exposure or if feeling unwell. 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 following exposure or if feeling unwell. 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.

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XL1-Blue E. coli Strain
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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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.
Inhalation	T3 20-mer Primer Lyophilized	Causes serious eye irritation.
	XL1-Blue E. coli Strain	Causes serious eye irritation.
	: 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.
Skin contact	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.
	: Ponasterone A	No known significant effects or critical hazards.
Ingestion	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.
Ingestion	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.
Ingestion	pEGSH Forward Primer Lyophilized	No known significant effects or critical hazards.
	Lyophilized	No known significant effects or critical hazards.

Section 4. First-aid measures

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
 redness
 T3 20-mer Primer Lyophilized Adverse symptoms may include the following:
 pain or irritation
 watering
 redness
 XL1-Blue E. coli Strain Adverse symptoms may include the following:
 pain or irritation
 watering
 redness

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 Lyophilized Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 T3 20-mer Primer Lyophilized Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 XL1-Blue E. coli Strain 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
 XL1-Blue E. coli Strain No specific data.

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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.
	XL1-Blue E. coli Strain	No specific data.

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

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.
	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.

Specific treatments	: 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.

Protection of first-aiders	: Ponasterone A	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	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

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T3 20-mer Primer Lyophilized	providing aid to give mouth-to-mouth resuscitation. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
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.

Specific hazards arising from the chemical

: 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 container may burst.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Ponasterone A	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
Special protective actions 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

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: Ponasterone A	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.
pERV3 Receptor Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
pEGSH Expression Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.
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.
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.
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.

Section 6. Accidental release measures

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled 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 spilled 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 spilled material. Put on appropriate personal

Section 6. Accidental release measures

pEGSH Forward Primer Lyophilized	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. 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 spilled 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : Ponasterone A	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".
pERV3 Receptor Vector	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".
pEGSH Expression Vector	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".
pEGSH-Luc Vector (Positive Control)	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".
pEGSH Forward Primer Lyophilized	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".
T3 20-mer Primer Lyophilized	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".
XL1-Blue E. coli Strain	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 6. Accidental release measures

Environmental precautions	: Ponasterone A	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).
	pERV3 Receptor Vector	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).
	pEGSH Expression Vector	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).
	pEGSH-Luc Vector (Positive Control)	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).
	pEGSH Forward Primer Lyophilized	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).
	T3 20-mer Primer Lyophilized	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).
	XL1-Blue E. coli Strain	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials 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, labeled 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.

Section 6. Accidental release measures

	disposal container. Dispose of via a licensed waste disposal contractor.
pEGSH Forward Primer Lyophilized	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. 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. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Ponasterone A

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

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.

Section 7. Handling and storage

	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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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 8 for additional information on hygiene measures.
	pEGSH Forward 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.
	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.

Section 7. Handling and storage

	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.
<p>Conditions for safe storage, including any incompatibilities</p>	: 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 unlabeled 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 unlabeled 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 unlabeled 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pEGSH Forward Primer Lyophilized	Store in accordance with local regulations. Store in original container protected from direct sunlight in a

Section 7. Handling and storage

T3 20-mer Primer Lyophilized	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 unlabeled 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
XL1-Blue E. coli Strain Glycerol	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist</p> <p>CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m³ 8 hours. Form: mist</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist</p> <p>CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m³ 8 hours. Form: mist</p> <p>CA British Columbia Provincial (Canada, 5/2019). TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist</p>

Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Handle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

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. [lyophilized]
	T3 20-mer Primer Lyophilized	Solid. [lyophilized]
	XL1-Blue E. coli Strain	Liquid.

Section 9. Physical and chemical properties

Color	: Ponasterone A	White.
	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.
Odor	: 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.
Odor threshold	: 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.
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	: Ponasterone A	Not available.
	pERV3 Receptor Vector	0°C (32°F)
	pEGSH Expression Vector	0°C (32°F)
	pEGSH-Luc Vector (Positive Control)	0°C (32°F)
	pEGSH Forward Primer Lyophilized	Not available.
	T3 20-mer Primer Lyophilized	Not available.
	XL1-Blue E. coli Strain	Not available.
Boiling point	: Ponasterone A	Not available.
	pERV3 Receptor Vector	100°C (212°F)
	pEGSH Expression Vector	100°C (212°F)
	pEGSH-Luc Vector (Positive Control)	100°C (212°F)
	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

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
		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.
Flammability (solid, gas)		:	Ponasterone A
		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.
	Lower and upper explosive (flammable) limits	:	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.
Vapor pressure		:	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.
	Vapor density	:	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

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.
Solubility	: 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.
Partition coefficient: n-octanol/water	: 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.
Auto-ignition temperature	: 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.
Decomposition temperature	: 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.
Viscosity	: 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.

Section 9. Physical and chemical properties

T3 20-mer Primer Lyophilized Not available.
 XL1-Blue E. coli Strain Not available.

Section 10. Stability and reactivity

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.
Chemical stability	: Ponasterone A	The product is stable.
	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.
Possibility of hazardous reactions	: Ponasterone A	Under normal conditions of storage and use, hazardous reactions will not occur.
	pERV3 Receptor Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pEGSH Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pEGSH-Luc Vector (Positive Control)	Under normal conditions of storage and use, hazardous reactions will not occur.
	pEGSH Forward Primer Lyophilized	Under normal conditions of storage and use, hazardous reactions will not occur.
	T3 20-mer Primer Lyophilized	Under normal conditions of storage and use, hazardous reactions will not occur.
	XL1-Blue E. coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Ponasterone A	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 grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
	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.

Section 10. Stability and reactivity

T3 20-mer Primer Lyophilized No specific data.
 XL1-Blue E. coli Strain No specific data.

Incompatible materials : Ponasterone A Reactive or incompatible with the following materials:
 oxidizing materials
 pERV3 Receptor Vector May react or be incompatible with oxidizing materials.
 pEGSH Expression Vector May react or be incompatible with oxidizing materials.
 pEGSH-Luc Vector (Positive Control) May react or be incompatible with oxidizing materials.
 pEGSH Forward Primer Lyophilized May react or be incompatible with oxidizing materials.
 T3 20-mer Primer Lyophilized May react or be incompatible with oxidizing materials.
 XL1-Blue E. coli Strain May react or be incompatible with oxidizing materials.

Hazardous decomposition products : Ponasterone A Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 pERV3 Receptor Vector Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 pEGSH Expression Vector Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 pEGSH-Luc Vector (Positive Control) Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 pEGSH Forward Primer Lyophilized Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 T3 20-mer Primer Lyophilized Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 XL1-Blue E. coli Strain Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
XL1-Blue E. coli Strain				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Irritation/Corrosion

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

Section 11. Toxicological information

mg

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
pEGSH Forward Primer Lyophilized 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	-	Respiratory tract irritation
T3 20-mer Primer Lyophilized 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
pEGSH Forward Primer Lyophilized Edetic acid	Category 2	-	kidneys
T3 20-mer Primer Lyophilized Edetic acid	Category 2	-	kidneys

Aspiration hazard

Not available.

Information on the likely routes of exposure

Information on the 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

Eye contact

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 Causes serious eye irritation.

Section 11. Toxicological information

	Lyophilized	
	T3 20-mer Primer Lyophilized	Causes serious eye irritation.
	XL1-Blue E. coli Strain	Causes serious eye irritation.
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.
	Lyophilized	
	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	Causes skin irritation.
	Lyophilized	
	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	No known significant effects or critical hazards.
	Lyophilized	
	T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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	Adverse symptoms may include the following:
	Lyophilized	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	Adverse symptoms may include the following: pain or irritation watering redness

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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 Lyophilized	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	No specific data.
	pEGSH Expression Vector	No specific data.
Ingestion	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
	XL1-Blue E. coli Strain	No specific data.
	: 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.
XL1-Blue E. coli Strain	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	: 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	May cause damage to organs through prolonged or repeated exposure.

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	T3 20-mer Primer Lyophilized	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	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.
Mutagenicity	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.
	: Ponasterone A	No known significant effects or critical hazards.
	pERV3 Receptor Vector	No known significant effects or critical hazards.
Teratogenicity	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.
Fertility effects	T3 20-mer Primer Lyophilized	No known significant effects or critical hazards.
	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 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.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
pEGSH Forward Primer Lyophilized pEGSH Forward Primer Lyophilized Edetic acid	17500 4000	N/A N/A	N/A N/A	N/A N/A	N/A N/A
T3 20-mer Primer Lyophilized T3 20-mer Primer Lyophilized Edetic acid	17500 4000	N/A N/A	N/A N/A	N/A N/A	N/A N/A
XL1-Blue E. coli Strain XL1-Blue E. coli Strain Glycerol Sodium chloride	300000 12600 3000	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

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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 Glycerol Sodium chloride	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	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 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	

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
XL1-Blue E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

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

Bioaccumulative potential

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
XL1-Blue E. coli Strain Glycerol	-1.76	-	low

Mobility in soil

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

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

Section 13. Disposal considerations

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Europe : Not determined.

Japan : **Japan inventory (ENCS):** Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Other information

History

Date of issue/Date of revision : 08/31/2020

Date of previous issue : 06/03/2020

Version : 5.1

Key to abbreviations : ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 HPR = Hazardous Products Regulations
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 N/A = Not available
 UN = United Nations

Procedure used to derive the classification

Classification	Justification
Ponasterone A COMBUSTIBLE DUSTS - Category 1	On basis of test data
pEGSH Forward Primer Lyophilized SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method Calculation method Calculation method Calculation method
T3 20-mer Primer Lyophilized SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method Calculation method Calculation method Calculation method
XL1-Blue E. coli Strain EYE IRRITATION - Category 2A	Calculation method

References : Not available.

📌 Indicates information that has changed from previously issued version.

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