

SAFETY DATA SHEET



InterPlay Adenoviral C-terminal TAP Vectors

Section 1. Identification

1.1 Product identifier

Product name : InterPlay Adenoviral C-terminal TAP Vectors

Part no. (chemical kit) : 240216

Part no. : Adenoviral pCTAP Shuttle Vector - A 240216-51
Adenoviral pCTAP Shuttle Vector - B 240216-52
pCTAP Shuttle vector-C 240216-53
Adenoviral pTAP Shuttle-CAT Vector 240217-51
pShuttle-CMV-lacZ Control Vector 240008-51

Validation date : 6/21/2024

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

Identified uses : Analytical reagent.

Adenoviral pCTAP Shuttle Vector - A 0.02 ml (20 µg 1 µg/µl)
Adenoviral pCTAP Shuttle Vector - B 0.02 ml (20 µg 1 µg/µl)
pCTAP Shuttle vector-C 0.02 ml
Adenoviral pTAP Shuttle-CAT Vector 0.02 ml (20 µg 1 µg/µl)
pShuttle-CMV-lacZ Control Vector 0.01 ml (10 µg 1 µg/µl)

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status	Adenoviral pCTAP Shuttle Vector - A	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Adenoviral pCTAP Shuttle Vector - B	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	pCTAP Shuttle vector-C	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Adenoviral pTAP Shuttle-CAT Vector	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

Section 2. Hazards identification

pShuttle-CMV-lacZ Control Vector

This SDS should be retained and available for employees and other users of this product.

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

2.2 GHS label elements

Signal word

- : Adenoviral pCTAP Shuttle Vector - No signal word.
A
- Adenoviral pCTAP Shuttle Vector - No signal word.
B
- pCTAP Shuttle vector-C No signal word.
- Adenoviral pTAP Shuttle-CAT No signal word.
Vector
- pShuttle-CMV-lacZ Control Vector No signal word.

Hazard statements

- : Adenoviral pCTAP Shuttle Vector - No known significant effects or critical hazards.
A
- Adenoviral pCTAP Shuttle Vector - No known significant effects or critical hazards.
B
- pCTAP Shuttle vector-C No known significant effects or critical hazards.
- Adenoviral pTAP Shuttle-CAT No known significant effects or critical hazards.
Vector
- pShuttle-CMV-lacZ Control Vector No known significant effects or critical hazards.

Precautionary statements

Prevention

- : Adenoviral pCTAP Shuttle Vector - Not applicable.
A
- Adenoviral pCTAP Shuttle Vector - Not applicable.
B
- pCTAP Shuttle vector-C Not applicable.
- Adenoviral pTAP Shuttle-CAT Not applicable.
Vector
- pShuttle-CMV-lacZ Control Vector Not applicable.

Response

- : Adenoviral pCTAP Shuttle Vector - Not applicable.
A
- Adenoviral pCTAP Shuttle Vector - Not applicable.
B
- pCTAP Shuttle vector-C Not applicable.
- Adenoviral pTAP Shuttle-CAT Not applicable.
Vector
- pShuttle-CMV-lacZ Control Vector Not applicable.

Storage

- : Adenoviral pCTAP Shuttle Vector - Not applicable.
A
- Adenoviral pCTAP Shuttle Vector - Not applicable.
B
- pCTAP Shuttle vector-C Not applicable.
- Adenoviral pTAP Shuttle-CAT Not applicable.
Vector
- pShuttle-CMV-lacZ Control Vector Not applicable.

Disposal

:

Section 2. Hazards identification

Supplemental label elements	Adenoviral pCTAP Shuttle Vector - A	Not applicable.
	Adenoviral pCTAP Shuttle Vector - B	Not applicable.
	pCTAP Shuttle vector-C	Not applicable.
	Adenoviral pTAP Shuttle-CAT Vector	Not applicable.
	pShuttle-CMV-lacZ Control Vector	Not applicable.
	Adenoviral pCTAP Shuttle Vector - A	None known.
	Adenoviral pCTAP Shuttle Vector - B	None known.
	pCTAP Shuttle vector-C	None known.
	Adenoviral pTAP Shuttle-CAT Vector	None known.
	pShuttle-CMV-lacZ Control Vector	None known.

2.3 Other hazards

Hazards not otherwise classified	Adenoviral pCTAP Shuttle Vector - A	None known.
	Adenoviral pCTAP Shuttle Vector - B	None known.
	pCTAP Shuttle vector-C	None known.
	Adenoviral pTAP Shuttle-CAT Vector	None known.
	pShuttle-CMV-lacZ Control Vector	None known.

Section 3. Composition/information on ingredients

Substance/mixture	Adenoviral pCTAP Shuttle Vector - A	Mixture
	Adenoviral pCTAP Shuttle Vector - B	Mixture
	pCTAP Shuttle vector-C	Mixture
	Adenoviral pTAP Shuttle-CAT Vector	Mixture
	pShuttle-CMV-lacZ Control Vector	Mixture

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	Adenoviral pCTAP Shuttle Vector - 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.
	Adenoviral pCTAP Shuttle Vector - B	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.
	pCTAP Shuttle vector-C	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.
	Adenoviral pTAP Shuttle-CAT 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.
	pShuttle-CMV-lacZ Control Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

Section 4. First aid measures

Inhalation

- : Adenoviral pCTAP Shuttle Vector - A
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Adenoviral pCTAP Shuttle Vector - B
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- pCTAP Shuttle vector-C
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Adenoviral pTAP Shuttle-CAT Vector
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- pShuttle-CMV-lacZ Control Vector
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

- : Adenoviral pCTAP Shuttle Vector - A
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Adenoviral pCTAP Shuttle Vector - B
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- pCTAP Shuttle vector-C
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Adenoviral pTAP Shuttle-CAT Vector
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- pShuttle-CMV-lacZ Control Vector
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

- : Adenoviral pCTAP Shuttle Vector - A
Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Adenoviral pCTAP Shuttle Vector - B
Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- pCTAP Shuttle vector-C
Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Adenoviral pTAP Shuttle-CAT Vector
Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- pShuttle-CMV-lacZ Control Vector
Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Section 4. First aid measures

occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	: Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	: pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	: Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	: pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.
Inhalation	: Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	: Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	: pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	: Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	: pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.
Skin contact	: Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	: Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	: pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	: Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	: pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.
Ingestion	: Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	: Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	: pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	: Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	: pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Adenoviral pCTAP Shuttle Vector - A	No specific data.
	: Adenoviral pCTAP Shuttle Vector - B	No specific data.
	: pCTAP Shuttle vector-C	No specific data.
	: Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	: pShuttle-CMV-lacZ Control Vector	No specific data.
Inhalation	: Adenoviral pCTAP Shuttle Vector - A	No specific data.
	: Adenoviral pCTAP Shuttle Vector - B	No specific data.
	: pCTAP Shuttle vector-C	No specific data.
	: Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	: pShuttle-CMV-lacZ Control Vector	No specific data.

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Skin contact	: Adenoviral pCTAP Shuttle Vector - A	No specific data.
	Adenoviral pCTAP Shuttle Vector - B	No specific data.
	pCTAP Shuttle vector-C	No specific data.
	Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	pShuttle-CMV-lacZ Control Vector	No specific data.
Ingestion	: Adenoviral pCTAP Shuttle Vector - A	No specific data.
	Adenoviral pCTAP Shuttle Vector - B	No specific data.
	pCTAP Shuttle vector-C	No specific data.
	Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	pShuttle-CMV-lacZ Control Vector	No specific data.

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

Notes to physician	: Adenoviral pCTAP Shuttle Vector - A	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Adenoviral pCTAP Shuttle Vector - B	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCTAP Shuttle vector-C	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Adenoviral pTAP Shuttle-CAT Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pShuttle-CMV-lacZ Control Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Adenoviral pCTAP Shuttle Vector - A	No specific treatment.
	Adenoviral pCTAP Shuttle Vector - B	No specific treatment.
	pCTAP Shuttle vector-C	No specific treatment.
	Adenoviral pTAP Shuttle-CAT Vector	No specific treatment.
	pShuttle-CMV-lacZ Control Vector	No specific treatment.
Protection of first-aiders	: Adenoviral pCTAP Shuttle Vector - A	No action shall be taken involving any personal risk or without suitable training.
	Adenoviral pCTAP Shuttle Vector - B	No action shall be taken involving any personal risk or without suitable training.
	pCTAP Shuttle vector-C	No action shall be taken involving any personal risk or without suitable training.
	Adenoviral pTAP Shuttle-CAT Vector	No action shall be taken involving any personal risk or without suitable training.
	pShuttle-CMV-lacZ Control Vector	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Adenoviral pCTAP Shuttle Vector - A	Use an extinguishing agent suitable for the surrounding fire.
	Adenoviral pCTAP Shuttle Vector - B	Use an extinguishing agent suitable for the surrounding fire.
	pCTAP Shuttle vector-C	Use an extinguishing agent suitable for the surrounding fire.
	Adenoviral pTAP Shuttle-CAT Vector	Use an extinguishing agent suitable for the surrounding fire.
	pShuttle-CMV-lacZ Control Vector	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Adenoviral pCTAP Shuttle Vector - A	None known.
	Adenoviral pCTAP Shuttle Vector - B	None known.
	pCTAP Shuttle vector-C	None known.
	Adenoviral pTAP Shuttle-CAT Vector	None known.
	pShuttle-CMV-lacZ Control Vector	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Adenoviral pCTAP Shuttle Vector - A	In a fire or if heated, a pressure increase will occur and the container may burst.
	Adenoviral pCTAP Shuttle Vector - B	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCTAP Shuttle vector-C	In a fire or if heated, a pressure increase will occur and the container may burst.
	Adenoviral pTAP Shuttle-CAT Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pShuttle-CMV-lacZ Control Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Adenoviral pCTAP Shuttle Vector - A	No specific data.
	Adenoviral pCTAP Shuttle Vector - B	No specific data.
	pCTAP Shuttle vector-C	No specific data.
	Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	pShuttle-CMV-lacZ Control Vector	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: Adenoviral pCTAP Shuttle Vector - 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.
	Adenoviral pCTAP Shuttle Vector - B	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.
	pCTAP Shuttle vector-C	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.
	Adenoviral pTAP Shuttle-CAT 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.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

pShuttle-CMV-lacZ Control 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.
Adenoviral pCTAP Shuttle Vector - A	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Adenoviral pCTAP Shuttle Vector - B	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
pCTAP Shuttle vector-C	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Adenoviral pTAP Shuttle-CAT Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
pShuttle-CMV-lacZ Control Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Adenoviral pCTAP Shuttle Vector - 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. Put on appropriate personal protective equipment.
Adenoviral pCTAP Shuttle Vector - B	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.
pCTAP Shuttle vector-C	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.
Adenoviral pTAP Shuttle-CAT 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.
pShuttle-CMV-lacZ Control 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.

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For emergency responders	Adenoviral pCTAP Shuttle Vector - 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".
	Adenoviral pCTAP Shuttle Vector - B	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".
	pCTAP Shuttle vector-C	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".
	Adenoviral pTAP Shuttle-CAT 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".
	pShuttle-CMV-lacZ Control 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".

6.2 Environmental precautions

Adenoviral pCTAP Shuttle Vector - 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).
Adenoviral pCTAP Shuttle Vector - B	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).
pCTAP Shuttle vector-C	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).
Adenoviral pTAP Shuttle-CAT 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).
pShuttle-CMV-lacZ Control 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).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Adenoviral pCTAP Shuttle Vector - A	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.
	Adenoviral pCTAP Shuttle Vector - B	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.

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pCTAP Shuttle vector-C	disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Adenoviral pTAP Shuttle-CAT 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.
pShuttle-CMV-lacZ Control 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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

- : Adenoviral pCTAP Shuttle Vector - A Put on appropriate personal protective equipment (see Section 8).
- Adenoviral pCTAP Shuttle Vector - B Put on appropriate personal protective equipment (see Section 8).
- pCTAP Shuttle vector-C Put on appropriate personal protective equipment (see Section 8).
- Adenoviral pTAP Shuttle-CAT Vector Put on appropriate personal protective equipment (see Section 8).
- pShuttle-CMV-lacZ Control Vector Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

- : Adenoviral pCTAP Shuttle Vector - 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.
- Adenoviral pCTAP Shuttle Vector - B 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.
- pCTAP Shuttle vector-C 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.
- Adenoviral pTAP Shuttle-CAT 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

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	pShuttle-CMV-lacZ Control Vector	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.
7.2 Conditions for safe storage, including any incompatibilities	: Adenoviral pCTAP Shuttle Vector - A	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.
	Adenoviral pCTAP Shuttle Vector - B	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.
	pCTAP Shuttle vector-C	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.
	Adenoviral pTAP Shuttle-CAT 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.
	pShuttle-CMV-lacZ Control 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

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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.

7.3 Specific end use(s)

Recommendations	:	Adenoviral pCTAP Shuttle Vector - A	Industrial applications, Professional applications.
	:	Adenoviral pCTAP Shuttle Vector - B	Industrial applications, Professional applications.
	:	pCTAP Shuttle vector-C	Industrial applications, Professional applications.
	:	Adenoviral pTAP Shuttle-CAT Vector	Industrial applications, Professional applications.
	:	pShuttle-CMV-lacZ Control Vector	Industrial applications, Professional applications.
	:	Adenoviral pCTAP Shuttle Vector - A	Not available.
	:	Adenoviral pCTAP Shuttle Vector - B	Not available.
	:	pCTAP Shuttle vector-C	Not available.
	:	Adenoviral pTAP Shuttle-CAT Vector	Not available.
	:	pShuttle-CMV-lacZ Control Vector	Not available.
Industrial sector specific solutions			

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Adenoviral pCTAP Shuttle Vector - Liquid.
A
Adenoviral pCTAP Shuttle Vector - Liquid.
B
pCTAP Shuttle vector-C Liquid.
Adenoviral pTAP Shuttle-CAT Liquid.
Vector
pShuttle-CMV-lacZ Control Vector Liquid.
- Color** : Adenoviral pCTAP Shuttle Vector - Not available.
A
Adenoviral pCTAP Shuttle Vector - Not available.
B
pCTAP Shuttle vector-C Not available.
Adenoviral pTAP Shuttle-CAT Not available.
Vector
pShuttle-CMV-lacZ Control Vector Not available.
- Odor** : Adenoviral pCTAP Shuttle Vector - Not available.
A
Adenoviral pCTAP Shuttle Vector - Not available.
B
pCTAP Shuttle vector-C Not available.
Adenoviral pTAP Shuttle-CAT Not available.
Vector
pShuttle-CMV-lacZ Control Vector Not available.
- Odor threshold** : Adenoviral pCTAP Shuttle Vector - Not available.
A
Adenoviral pCTAP Shuttle Vector - Not available.
B
pCTAP Shuttle vector-C Not available.
Adenoviral pTAP Shuttle-CAT Not available.
Vector
pShuttle-CMV-lacZ Control Vector Not available.
- pH** :

Section 9. Physical and chemical properties and safety characteristics

	Adenoviral pCTAP Shuttle Vector - 7.5
	A
	Adenoviral pCTAP Shuttle Vector - 7.5
	B
	pCTAP Shuttle vector-C 7.5
	Adenoviral pTAP Shuttle-CAT 7.5
	Vector
	pShuttle-CMV-lacZ Control Vector 7.5
Melting point/freezing point	: Adenoviral pCTAP Shuttle Vector - 0°C (32°F)
	A
	Adenoviral pCTAP Shuttle Vector - 0°C (32°F)
	B
	pCTAP Shuttle vector-C 0°C (32°F)
	Adenoviral pTAP Shuttle-CAT 0°C (32°F)
	Vector
	pShuttle-CMV-lacZ Control Vector 0°C (32°F)
Boiling point, initial boiling point, and boiling range	: Adenoviral pCTAP Shuttle Vector - 100°C (212°F)
	A
	Adenoviral pCTAP Shuttle Vector - 100°C (212°F)
	B
	pCTAP Shuttle vector-C 100°C (212°F)
	Adenoviral pTAP Shuttle-CAT 100°C (212°F)
	Vector
	pShuttle-CMV-lacZ Control Vector 100°C (212°F)
Flash point	: Adenoviral pCTAP Shuttle Vector - Not available.
	A
	Adenoviral pCTAP Shuttle Vector - Not available.
	B
	pCTAP Shuttle vector-C Not available.
	Adenoviral pTAP Shuttle-CAT Not available.
	Vector
	pShuttle-CMV-lacZ Control Vector Not available.
Evaporation rate	: Adenoviral pCTAP Shuttle Vector - Not available.
	A
	Adenoviral pCTAP Shuttle Vector - Not available.
	B
	pCTAP Shuttle vector-C Not available.
	Adenoviral pTAP Shuttle-CAT Not available.
	Vector
	pShuttle-CMV-lacZ Control Vector Not available.
Flammability	: Adenoviral pCTAP Shuttle Vector - Not applicable.
	A
	Adenoviral pCTAP Shuttle Vector - Not applicable.
	B
	pCTAP Shuttle vector-C Not applicable.
	Adenoviral pTAP Shuttle-CAT Not applicable.
	Vector
	pShuttle-CMV-lacZ Control Vector Not applicable.
Lower and upper explosion limit/flammability limit	: Adenoviral pCTAP Shuttle Vector - Not available.
	A
	Adenoviral pCTAP Shuttle Vector - Not available.
	B
	pCTAP Shuttle vector-C Not available.
	Adenoviral pTAP Shuttle-CAT Not available.
	Vector
	pShuttle-CMV-lacZ Control Vector Not available.
Vapor pressure	:

Section 9. Physical and chemical properties and safety characteristics

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Adenoviral pCTAP Shuttle Vector - A						
water	17.5	2.3	-	92.258	12.3	-
Adenoviral pCTAP Shuttle Vector - B						
water	17.5	2.3	-	92.258	12.3	-
pCTAP Shuttle vector-C						
water	17.5	2.3	-	92.258	12.3	-
Adenoviral pTAP Shuttle-CAT Vector						
water	17.5	2.3	-	92.258	12.3	-
pShuttle-CMV-lacZ Control Vector						
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density : Adenoviral pCTAP Shuttle Vector - Not available.
A
Adenoviral pCTAP Shuttle Vector - Not available.
B
pCTAP Shuttle vector-C Not available.
Adenoviral pTAP Shuttle-CAT Not available.
Vector
pShuttle-CMV-lacZ Control Vector Not available.

Relative density : Adenoviral pCTAP Shuttle Vector - Not available.
A
Adenoviral pCTAP Shuttle Vector - Not available.
B
pCTAP Shuttle vector-C Not available.
Adenoviral pTAP Shuttle-CAT Not available.
Vector
pShuttle-CMV-lacZ Control Vector Not available.

Media	Result
Adenoviral pCTAP Shuttle Vector - A	
water	Soluble
Adenoviral pCTAP Shuttle Vector - B	
water	Soluble
pCTAP Shuttle vector-C	
water	Soluble
Adenoviral pTAP Shuttle-CAT Vector	
water	Soluble
pShuttle-CMV-lacZ Control Vector	
water	Soluble

Section 9. Physical and chemical properties and safety characteristics

Partition coefficient: n-octanol/water : ☒ Adenoviral pCTAP Shuttle Vector - Not applicable.
A
Adenoviral pCTAP Shuttle Vector - Not applicable.
B
pCTAP Shuttle vector-C Not applicable.
Adenoviral pTAP Shuttle-CAT Not applicable.
Vector
pShuttle-CMV-lacZ Control Vector Not applicable.

Auto-ignition temperature : ☒ Not available.

Decomposition temperature : Adenoviral pCTAP Shuttle Vector - Not available.
A
Adenoviral pCTAP Shuttle Vector - Not available.
B
pCTAP Shuttle vector-C Not available.
Adenoviral pTAP Shuttle-CAT Not available.
Vector
pShuttle-CMV-lacZ Control Vector Not available.

Viscosity : Adenoviral pCTAP Shuttle Vector - Not available.
A
Adenoviral pCTAP Shuttle Vector - Not available.
B
pCTAP Shuttle vector-C Not available.
Adenoviral pTAP Shuttle-CAT Not available.
Vector
pShuttle-CMV-lacZ Control Vector Not available.

Particle characteristics

Median particle size : ☒ Adenoviral pCTAP Shuttle Vector - Not applicable.
A
Adenoviral pCTAP Shuttle Vector - Not applicable.
B
pCTAP Shuttle vector-C Not applicable.
Adenoviral pTAP Shuttle-CAT Not applicable.
Vector
pShuttle-CMV-lacZ Control Vector Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity : Adenoviral pCTAP Shuttle Vector - No specific test data related to reactivity available for this product or its ingredients.
A
Adenoviral pCTAP Shuttle Vector - No specific test data related to reactivity available for this product or its ingredients.
B
pCTAP Shuttle vector-C No specific test data related to reactivity available for this product or its ingredients.
Adenoviral pTAP Shuttle-CAT No specific test data related to reactivity available for this product or its ingredients.
Vector
pShuttle-CMV-lacZ Control Vector No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Adenoviral pCTAP Shuttle Vector - The product is stable.
A
Adenoviral pCTAP Shuttle Vector - The product is stable.
B
pCTAP Shuttle vector-C The product is stable.
Adenoviral pTAP Shuttle-CAT The product is stable.
Vector
pShuttle-CMV-lacZ Control Vector The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: Adenoviral pCTAP Shuttle Vector - A	Under normal conditions of storage and use, hazardous reactions will not occur.
	Adenoviral pCTAP Shuttle Vector - B	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCTAP Shuttle vector-C	Under normal conditions of storage and use, hazardous reactions will not occur.
	Adenoviral pTAP Shuttle-CAT Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pShuttle-CMV-lacZ Control Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Adenoviral pCTAP Shuttle Vector - A	No specific data.
	Adenoviral pCTAP Shuttle Vector - B	No specific data.
	pCTAP Shuttle vector-C	No specific data.
	Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	pShuttle-CMV-lacZ Control Vector	No specific data.
10.5 Incompatible materials	: Adenoviral pCTAP Shuttle Vector - A	May react or be incompatible with oxidizing materials.
	Adenoviral pCTAP Shuttle Vector - B	May react or be incompatible with oxidizing materials.
	pCTAP Shuttle vector-C	May react or be incompatible with oxidizing materials.
	Adenoviral pTAP Shuttle-CAT Vector	May react or be incompatible with oxidizing materials.
	pShuttle-CMV-lacZ Control Vector	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: Adenoviral pCTAP Shuttle Vector - A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Adenoviral pCTAP Shuttle Vector - B	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCTAP Shuttle vector-C	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Adenoviral pTAP Shuttle-CAT Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pShuttle-CMV-lacZ Control Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Section 11. Toxicological information

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure :

Adenoviral pCTAP Shuttle Vector - A	Not available.
Adenoviral pCTAP Shuttle Vector - B	Not available.
pCTAP Shuttle vector-C	Not available.
Adenoviral pTAP Shuttle-CAT Vector	Not available.
pShuttle-CMV-lacZ Control Vector	Not available.

Potential acute health effects

Eye contact :

Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
pCTAP Shuttle vector-C	No known significant effects or critical hazards.
Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.

Inhalation :

Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
pCTAP Shuttle vector-C	No known significant effects or critical hazards.
Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.

Skin contact :

Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
pCTAP Shuttle vector-C	No known significant effects or critical hazards.
Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.

Section 11. Toxicological information

Ingestion	:	Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	:	Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	:	pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	:	Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	:	pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Adenoviral pCTAP Shuttle Vector - A	No specific data.
	:	Adenoviral pCTAP Shuttle Vector - B	No specific data.
	:	pCTAP Shuttle vector-C	No specific data.
	:	Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	:	pShuttle-CMV-lacZ Control Vector	No specific data.
Inhalation	:	Adenoviral pCTAP Shuttle Vector - A	No specific data.
	:	Adenoviral pCTAP Shuttle Vector - B	No specific data.
	:	pCTAP Shuttle vector-C	No specific data.
	:	Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	:	pShuttle-CMV-lacZ Control Vector	No specific data.
Skin contact	:	Adenoviral pCTAP Shuttle Vector - A	No specific data.
	:	Adenoviral pCTAP Shuttle Vector - B	No specific data.
	:	pCTAP Shuttle vector-C	No specific data.
	:	Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	:	pShuttle-CMV-lacZ Control Vector	No specific data.
Ingestion	:	Adenoviral pCTAP Shuttle Vector - A	No specific data.
	:	Adenoviral pCTAP Shuttle Vector - B	No specific data.
	:	pCTAP Shuttle vector-C	No specific data.
	:	Adenoviral pTAP Shuttle-CAT Vector	No specific data.
	:	pShuttle-CMV-lacZ Control Vector	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

Section 11. Toxicological information

General	:	Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	:	Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	:	pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	:	Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	:	pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.
Carcinogenicity	:	Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	:	Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	:	pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	:	Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	:	pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.
Mutagenicity	:	Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	:	Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	:	pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	:	Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	:	pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.
Reproductive toxicity	:	Adenoviral pCTAP Shuttle Vector - A	No known significant effects or critical hazards.
	:	Adenoviral pCTAP Shuttle Vector - B	No known significant effects or critical hazards.
	:	pCTAP Shuttle vector-C	No known significant effects or critical hazards.
	:	Adenoviral pTAP Shuttle-CAT Vector	No known significant effects or critical hazards.
	:	pShuttle-CMV-lacZ Control Vector	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

Section 12. Ecological information

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

DOT / TDG / Mexico / 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

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: EDTA

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

Section 15. Regulatory information

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification	:	Adenoviral pCTAP Shuttle Vector - A	Not applicable.
		Adenoviral pCTAP Shuttle Vector - B	Not applicable.
		pCTAP Shuttle vector-C	Not applicable.
		Adenoviral pTAP Shuttle-CAT Vector	Not applicable.
		pShuttle-CMV-lacZ Control Vector	Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	All components are listed or exempted.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	:	<input checked="" type="checkbox"/> All components are listed or exempted.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are active or exempted.
Viet Nam	:	Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue/Date of revision	: 06/21/2024
Date of previous issue	: 06/29/2021
Version	: 7
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals 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

📌 Indicates information that has changed from previously issued version.

Notice to reader

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