

# SAFETY DATA SHEET



InterPlay C-terminal Mammalian TAP Vectors, Part Number 240102

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

### 1.1 Product identifier

<b>Product name</b>	: InterPlay C-terminal Mammalian TAP Vectors, Part Number 240102	
<b>Part no. (chemical kit)</b>	: 240102	
<b>Part no.</b>	: pCTAP-A Expression Vector	240102-51
	: pCTAP-B Expression Vector	240102-52
	: pCTAP-C Expression Vector	240102-53
	: pNTAP-Mef2a Expression Control Vector	240101-55
	: pCMV-Tag2-Mef2c Expression Control Vector	240101-54

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

<b>Material uses</b>	: Analytical reagent.	
	pCTAP-A Expression Vector	0.02 ml (20 µg 1 µg/µl)
	pCTAP-B Expression Vector	0.02 ml (20ug 1ug/ul)
	pCTAP-C Expression Vector	0.02 ml (20 µg 1 µg/µl)
	pNTAP-Mef2a Expression Control Vector	0.03 ml (30 µg 1 µg/µl)
	pCMV-Tag2-Mef2c Expression Control Vector	0.03 ml (30 µg 1 µg/µl)

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.  
 5500 Lakeside Cheadle Royal Business Park,  
 Cheadle, Cheshire, SK8 3GR  
 United Kingdom  
 Tel: +44 (0) 345 712 5292

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	: pCTAP-A Expression Vector	Mixture
	: pCTAP-B Expression Vector	Mixture
	: pCTAP-C Expression Vector	Mixture
	: pNTAP-Mef2a Expression Control Vector	Mixture
	: pCMV-Tag2-Mef2c Expression Control Vector	Mixture

**SECTION 2: Hazards identification**

Vector

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

Not classified.

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

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

**2.2 Label elements**

<b>Signal word</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	No signal word. No signal word. No signal word. No signal word. No signal word.
<b>Hazard statements</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>			
<b>Prevention</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Response</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

**SECTION 2: Hazards identification**

<b>Storage</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

## SECTION 2: Hazards identification

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: pCTAP-A Expression Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	pCTAP-B Expression Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	pCTAP-C Expression Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	pNTAP-Mef2a Expression Control Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	pCMV-Tag2-Mef2c Expression Control Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	<b>Other hazards which do not result in classification</b>	: pCTAP-A Expression Vector
	pCTAP-B Expression Vector	None known.
	pCTAP-C Expression Vector	None known.
	pNTAP-Mef2a Expression Control Vector	None known.
	pCMV-Tag2-Mef2c Expression Control Vector	None known.

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	: pCTAP-A Expression Vector	Mixture
	pCTAP-B Expression Vector	Mixture
	pCTAP-C Expression Vector	Mixture
	pNTAP-Mef2a Expression Control Vector	Mixture
	pCMV-Tag2-Mef2c Expression Control Vector	Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: pCTAP-A 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.
	pCTAP-B 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.
	pCTAP-C 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.
	pNTAP-Mef2a Expression Control 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.
	pCMV-Tag2-Mef2c Expression Control 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.

## SECTION 4: First aid measures

<b>Inhalation</b>	: pCTAP-A Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pCTAP-B Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pCTAP-C Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pNTAP-Mef2a Expression Control Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pCMV-Tag2-Mef2c Expression Control Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: pCTAP-A Expression Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pCTAP-B Expression Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pCTAP-C Expression Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pNTAP-Mef2a Expression Control Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pCMV-Tag2-Mef2c Expression Control Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: pCTAP-A Expression 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.
	pCTAP-B Expression 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.
	pCTAP-C Expression 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.
	pNTAP-Mef2a Expression 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.
	pCMV-Tag2-Mef2c Expression 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.
<b>Protection of first-aiders</b>	: pCTAP-A Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCTAP-B Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCTAP-C Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pNTAP-Mef2a Expression Control Vector	No action shall be taken involving any personal risk or without suitable training.

## SECTION 4: First aid measures

Vector	No action shall be taken involving any personal risk or without suitable training.
pCMV-Tag2-Mef2c	
Expression Control	
Vector	

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: pCTAP-A Expression Vector	No known significant effects or critical hazards.
	pCTAP-B Expression Vector	No known significant effects or critical hazards.
	pCTAP-C Expression Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
<b>Inhalation</b>	: pCTAP-A Expression Vector	No known significant effects or critical hazards.
	pCTAP-B Expression Vector	No known significant effects or critical hazards.
	pCTAP-C Expression Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
<b>Skin contact</b>	: pCTAP-A Expression Vector	No known significant effects or critical hazards.
	pCTAP-B Expression Vector	No known significant effects or critical hazards.
	pCTAP-C Expression Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
<b>Ingestion</b>	: pCTAP-A Expression Vector	No known significant effects or critical hazards.
	pCTAP-B Expression Vector	No known significant effects or critical hazards.
	pCTAP-C Expression Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

## SECTION 4: First aid measures

<b>Eye contact</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Inhalation</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Ingestion</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	No specific data. No specific data. No specific data. No specific data. No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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## SECTION 4: First aid measures

<b>Specific treatments</b>	:	pCTAP-A Expression Vector	No specific treatment.
		pCTAP-B Expression Vector	No specific treatment.
		pCTAP-C Expression Vector	No specific treatment.
		pNTAP-Mef2a Expression Control Vector	No specific treatment.
		pCMV-Tag2-Mef2c Expression Control Vector	No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	:	pCTAP-A Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
		pCTAP-B Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
		pCTAP-C Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
		pNTAP-Mef2a Expression Control Vector	Use an extinguishing agent suitable for the surrounding fire.
		pCMV-Tag2-Mef2c Expression Control Vector	Use an extinguishing agent suitable for the surrounding fire.

<b>Unsuitable extinguishing media</b>	:	pCTAP-A Expression Vector	None known.
		pCTAP-B Expression Vector	None known.
		pCTAP-C Expression Vector	None known.
		pNTAP-Mef2a Expression Control Vector	None known.
		pCMV-Tag2-Mef2c Expression Control Vector	None known.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	:	pCTAP-A Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
		pCTAP-B Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
		pCTAP-C Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
		pNTAP-Mef2a Expression Control Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
		pCMV-Tag2-Mef2c Expression Control Vector	In a fire or if heated, a pressure increase will occur and the container may burst.

<b>Hazardous combustion products</b>	:	pCTAP-A Expression Vector	No specific data.
		pCTAP-B Expression Vector	No specific data.
		pCTAP-C Expression Vector	No specific data.
		pNTAP-Mef2a Expression Control	No specific data.



## SECTION 5: Firefighting measures

Vector	No specific data.
pCMV-Tag2-Mef2c	
Expression Control	
Vector	

### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

: pCTAP-A 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.
pCTAP-B 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.
pCTAP-C 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.
pNTAP-Mef2a Expression 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.
pCMV-Tag2-Mef2c Expression 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.

#### Special protective equipment for fire-fighters

: pCTAP-A 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
pCTAP-B 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
pCTAP-C 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
pNTAP-Mef2a Expression 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
pCMV-Tag2-Mef2c Expression 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: pCTAP-A Expression Vector	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
pCTAP-B 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.

## SECTION 6: Accidental release measures

	pCTAP-C Expression Vector	Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	pNTAP-Mef2a Expression 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 spilt material. Put on appropriate personal protective equipment.
	pCMV-Tag2-Mef2c Expression 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 spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: pCTAP-A Expression Vector	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pCTAP-B Expression Vector	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pCTAP-C Expression Vector	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pNTAP-Mef2a Expression Control Vector	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pCMV-Tag2-Mef2c Expression Control Vector	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>6.2 Environmental precautions</b>	: pCTAP-A Expression Vector	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	pCTAP-B Expression Vector	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	pCTAP-C Expression Vector	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	pNTAP-Mef2a Expression Control Vector	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	pCMV-Tag2-Mef2c Expression Control Vector	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

## SECTION 6: Accidental release measures

<b>Methods for cleaning up</b>	: pCTAP-A 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.
	pCTAP-B 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.
	pCTAP-C 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.
	pNTAP-Mef2a Expression 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.
	pCMV-Tag2-Mef2c Expression 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.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: pCTAP-A Expression Vector	Put on appropriate personal protective equipment (see Section 8).
	pCTAP-B Expression Vector	Put on appropriate personal protective equipment (see Section 8).
	pCTAP-C Expression Vector	Put on appropriate personal protective equipment (see Section 8).
	pNTAP-Mef2a Expression Control Vector	Put on appropriate personal protective equipment (see Section 8).
	pCMV-Tag2-Mef2c Expression Control Vector	Put on appropriate personal protective equipment (see Section 8).

<b>Advice on general occupational hygiene</b>	: pCTAP-A 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.
	pCTAP-B 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.
	pCTAP-C 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.

## SECTION 7: Handling and storage

pNTAP-Mef2a Expression Control 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.
pCMV-Tag2-Mef2c Expression Control 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.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

: pCTAP-A Expression Vector	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
pCTAP-B Expression Vector	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
pCTAP-C Expression Vector	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
pNTAP-Mef2a Expression 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 to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
pCMV-Tag2-Mef2c Expression 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 to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

## SECTION 7: Handling and storage

before handling or use.

### 7.3 Specific end use(s)

<b>Recommendations</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not available. Not available. Not available. Not available. Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### **Recommended monitoring procedures**

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

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

#### **Appropriate engineering controls**

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

#### Individual protection measures

## SECTION 8: Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: pCTAP-A Expression Vector	Liquid.
	: pCTAP-B Expression Vector	Liquid.
	: pCTAP-C Expression Vector	Liquid.
	: pNTAP-Mef2a Expression Control Vector	Liquid.
	: pCMV-Tag2-Mef2c Expression Control Vector	Liquid.
	<b>Colour</b>	: pCTAP-A Expression Vector
: pCTAP-B Expression Vector		Not available.
: pCTAP-C Expression Vector		Not available.
: pNTAP-Mef2a Expression Control Vector		Not available.
: pCMV-Tag2-Mef2c Expression Control Vector		Not available.
: pCMV-Tag2-Mef2c Expression Control Vector		Not available.

**SECTION 9: Physical and chemical properties**

<b>Odour</b>	: pCTAP-A Expression Vector	Not available.
	pCTAP-B Expression Vector	Not available.
	pCTAP-C Expression Vector	Not available.
	pNTAP-Mef2a Expression Control Vector	Not available.
	pCMV-Tag2-Mef2c Expression Control Vector	Not available.
<b>Odour threshold</b>	: pCTAP-A Expression Vector	Not available.
	pCTAP-B Expression Vector	Not available.
	pCTAP-C Expression Vector	Not available.
	pNTAP-Mef2a Expression Control Vector	Not available.
	pCMV-Tag2-Mef2c Expression Control Vector	Not available.
<b>Melting point/freezing point</b>	: pCTAP-A Expression Vector	0°C
	pCTAP-B Expression Vector	0°C
	pCTAP-C Expression Vector	0°C
	pNTAP-Mef2a Expression Control Vector	0°C
	pCMV-Tag2-Mef2c Expression Control Vector	0°C
<b>Initial boiling point and boiling range</b>	: pCTAP-A Expression Vector	100°C (212°F)
	pCTAP-B Expression Vector	100°C (212°F)
	pCTAP-C Expression Vector	100°C (212°F)
	pNTAP-Mef2a Expression Control Vector	100°C (212°F)
	pCMV-Tag2-Mef2c Expression Control Vector	100°C (212°F)
<b>Flammability (solid, gas)</b>	: pCTAP-A Expression Vector	Not applicable.
	pCTAP-B Expression Vector	Not applicable.
	pCTAP-C Expression Vector	Not applicable.
	pNTAP-Mef2a Expression Control Vector	Not applicable.
	pCMV-Tag2-Mef2c Expression Control Vector	Not applicable.

**SECTION 9: Physical and chemical properties**

**Upper/lower flammability or explosive limits** : pCTAP-A Expression Vector Not available.  
 pCTAP-B Expression Vector Not available.  
 pCTAP-C Expression Vector Not available.  
 pNTAP-Mef2a Expression Control Vector Not available.  
 pCMV-Tag2-Mef2c Expression Control Vector Not available.

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>pCTAP-A Expression Vector</b> Edetic acid	>100	>212	DIN 51758			
<b>pCTAP-B Expression Vector</b> Edetic acid	>100	>212	DIN 51758			
<b>pCTAP-C Expression Vector</b> Edetic acid	>100	>212	DIN 51758			
<b>pNTAP-Mef2a Expression Control Vector</b> Edetic acid	>100	>212	DIN 51758			
<b>pCMV-Tag2-Mef2c Expression Control Vector</b> Edetic acid	>100	>212	DIN 51758			

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
<b>pCTAP-A Expression Vector</b> Edetic acid	>400	>752	VDI 2263
<b>pCTAP-B Expression Vector</b> Edetic acid	>400	>752	VDI 2263
<b>pCTAP-C Expression Vector</b> Edetic acid	>400	>752	VDI 2263
<b>pNTAP-Mef2a Expression Control Vector</b> Edetic acid	>400	>752	VDI 2263
<b>pCMV-Tag2-Mef2c Expression Control Vector</b> Edetic acid	>400	>752	VDI 2263



## SECTION 9: Physical and chemical properties

<b>Decomposition temperature</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not available. Not available. Not available. Not available. Not available.
<b>pH</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	7.5 7.5 7.5 7.5 7.5
<b>Viscosity</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not available. Not available. Not available. Not available. Not available.
<b>Solubility(ies)</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Vapour pressure</b>	:		

**SECTION 9: Physical and chemical properties**

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>pCTAP-A Expression Vector</b>						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
<b>pCTAP-B Expression Vector</b>						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
<b>pCTAP-C Expression Vector</b>						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
<b>pNTAP-Mef2a Expression Control Vector</b>						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
<b>pCMV-Tag2-Mef2c Expression Control Vector</b>						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	

**Evaporation rate** : pCTAP-A Expression Vector Not available.  
 pCTAP-B Expression Vector Not available.  
 pCTAP-C Expression Vector Not available.  
 pNTAP-Mef2a Expression Control Vector Not available.  
 pCMV-Tag2-Mef2c Expression Control Vector Not available.

**Relative density** : pCTAP-A Expression Vector Not available.  
 pCTAP-B Expression Vector Not available.  
 pCTAP-C Expression Vector Not available.  
 pNTAP-Mef2a Expression Control Not available.

## SECTION 9: Physical and chemical properties

	Vector	
	pCMV-Tag2-Mef2c	Not available.
	Expression Control	
	Vector	
<b>Vapour density</b>	: pCTAP-A Expression	Not available.
	Vector	
	pCTAP-B Expression	Not available.
	Vector	
	pCTAP-C Expression	Not available.
	Vector	
	pNTAP-Mef2a	Not available.
	Expression Control	
	Vector	
	pCMV-Tag2-Mef2c	Not available.
	Expression Control	
	Vector	
<b>Oxidising properties</b>	: pCTAP-A Expression	Not available.
	Vector	
	pCTAP-B Expression	Not available.
	Vector	
	pCTAP-C Expression	Not available.
	Vector	
	pNTAP-Mef2a	Not available.
	Expression Control	
	Vector	
	pCMV-Tag2-Mef2c	Not available.
	Expression Control	
	Vector	
<b>Particle characteristics</b>		
<b>Median particle size</b>	: pCTAP-A Expression	Not applicable.
	Vector	
	pCTAP-B Expression	Not applicable.
	Vector	
	pCTAP-C Expression	Not applicable.
	Vector	
	pNTAP-Mef2a	Not applicable.
	Expression Control	
	Vector	
	pCMV-Tag2-Mef2c	Not applicable.
	Expression Control	
	Vector	

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: pCTAP-A Expression	No specific test data related to reactivity available for this product or its ingredients.
	Vector	
	pCTAP-B Expression	No specific test data related to reactivity available for this product or its ingredients.
	Vector	
	pCTAP-C Expression	No specific test data related to reactivity available for this product or its ingredients.
	Vector	
	pNTAP-Mef2a	No specific test data related to reactivity available for this product or its ingredients.
	Expression Control	
	Vector	
	pCMV-Tag2-Mef2c	No specific test data related to reactivity available for this product or its ingredients.
	Expression Control	
	Vector	

## SECTION 10: Stability and reactivity

<b>10.2 Chemical stability</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 10: Stability and reactivity

Expression Control Vector decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not available.

#### Acute toxicity estimates

N/A

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

#### Information on likely routes of exposure

pCTAP-A Expression Vector	Not available.
pCTAP-B Expression Vector	Not available.
pCTAP-C Expression Vector	Not available.
pNTAP-Mef2a Expression Control Vector	Not available.
pCMV-Tag2-Mef2c Expression Control Vector	Not available.

#### Potential acute health effects

<b>Inhalation</b>	pCTAP-A Expression Vector	No known significant effects or critical hazards.
	pCTAP-B Expression Vector	No known significant effects or critical hazards.
	pCTAP-C Expression Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

<b>Ingestion</b>	:	pCTAP-A Expression Vector	No known significant effects or critical hazards.
		pCTAP-B Expression Vector	No known significant effects or critical hazards.
		pCTAP-C Expression Vector	No known significant effects or critical hazards.
		pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
		pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	<b>Skin contact</b>	:	pCTAP-A Expression Vector
		pCTAP-B Expression Vector	No known significant effects or critical hazards.
		pCTAP-C Expression Vector	No known significant effects or critical hazards.
		pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
		pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
<b>Eye contact</b>		:	pCTAP-A Expression Vector
		pCTAP-B Expression Vector	No known significant effects or critical hazards.
		pCTAP-C Expression Vector	No known significant effects or critical hazards.
		pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
		pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Inhalation</b>	:	pCTAP-A Expression Vector	No specific data.
		pCTAP-B Expression Vector	No specific data.
		pCTAP-C Expression Vector	No specific data.
		pNTAP-Mef2a Expression Control Vector	No specific data.
		pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
	<b>Ingestion</b>	:	pCTAP-A Expression Vector
		pCTAP-B Expression Vector	No specific data.
		pCTAP-C Expression Vector	No specific data.
		pNTAP-Mef2a Expression Control Vector	No specific data.
		pCMV-Tag2-Mef2c Expression Control Vector	No specific data.

## SECTION 11: Toxicological information

<b>Skin contact</b>	:	pCTAP-A Expression Vector	No specific data.	
		pCTAP-B Expression Vector	No specific data.	
		pCTAP-C Expression Vector	No specific data.	
		pNTAP-Mef2a Expression Control Vector	No specific data.	
		pCMV-Tag2-Mef2c Expression Control Vector	No specific data.	
	<b>Eye contact</b>	:	pCTAP-A Expression Vector	No specific data.
			pCTAP-B Expression Vector	No specific data.
		pCTAP-C Expression Vector	No specific data.	
		pNTAP-Mef2a Expression Control Vector	No specific data.	
		pCMV-Tag2-Mef2c Expression Control Vector	No specific data.	

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	:	pCTAP-A Expression Vector	No known significant effects or critical hazards.	
		pCTAP-B Expression Vector	No known significant effects or critical hazards.	
		pCTAP-C Expression Vector	No known significant effects or critical hazards.	
		pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.	
		pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.	
	<b>Carcinogenicity</b>	:	pCTAP-A Expression Vector	No known significant effects or critical hazards.
			pCTAP-B Expression Vector	No known significant effects or critical hazards.
		pCTAP-C Expression Vector	No known significant effects or critical hazards.	
		pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.	
		pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.	

## SECTION 11: Toxicological information

<b>Mutagenicity</b>	:	pCTAP-A Expression Vector	No known significant effects or critical hazards.
	:	pCTAP-B Expression Vector	No known significant effects or critical hazards.
	:	pCTAP-C Expression Vector	No known significant effects or critical hazards.
	:	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
	:	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	<b>Reproductive toxicity</b>	:	pCTAP-A Expression Vector
:		pCTAP-B Expression Vector	No known significant effects or critical hazards.
:		pCTAP-C Expression Vector	No known significant effects or critical hazards.
:		pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
:		pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : 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.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.



## SECTION 13: Disposal considerations

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

### Packaging

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

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

### Additional information

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

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

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

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

##### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Label** :

pCTAP-A Expression Vector	Not applicable.
pCTAP-B Expression Vector	Not applicable.
pCTAP-C Expression Vector	Not applicable.
pNTAP-Mef2a Expression Control Vector	Not applicable.
pCMV-Tag2-Mef2c Expression Control Vector	Not applicable.

### Other EU regulations

## SECTION 15: Regulatory information

### Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

### Persistent Organic Pollutants

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

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

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

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

## SECTION 16: Other information

 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration

## SECTION 16: Other information

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

### [Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

Classification	Justification
Not classified.	

### [Full text of abbreviated H statements](#)

Not applicable.

### [Full text of classifications \[CLP/GHS\]](#)

Not applicable.

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**Version** : 3

#### [Notice to reader](#)

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