

# SAFETY DATA SHEET



InterPlay N-terminal Mammalian TAP Vectors, Part Number 240101

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

### 1.1 Product identifier

**Product name** : InterPlay N-terminal Mammalian TAP Vectors, Part Number 240101  
**Part No. (Kit)** : 240101  
**Part No.** : pNTAP-A Expression Vector 240101-51  
pNTAP-B Expression Vector 240101-52  
pNTAP-C Expression Vector 240101-53  
pCMV-Tag2-Mef2c Expression Control Vector 240101-54  
pNTAP-Mef2a Expression Control Vector 240101-55

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

Identified uses	
Analytical reagent.	
pNTAP-A Expression Vector	0.02 ml
pNTAP-B Expression Vector	0.02 ml
pNTAP-C Expression Vector	0.02 ml (20 µg 1 µg/µl)
pCMV-Tag2-Mef2c Expression Control Vector	0.03 ml (30 µg 1 µg/µl)
pNTAP-Mef2a Expression Control Vector	0.03 ml (30 µg 1 µg/µl)

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

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

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

### 1.4 Emergency telephone number

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : pNTAP-A Expression Vector Mixture  
pNTAP-B Expression Vector Mixture  
pNTAP-C Expression Vector Mixture  
pCMV-Tag2-Mef2c Expression Control Vector Mixture  
pNTAP-Mef2a Mixture

**Date of issue/Date of revision** : 28/03/2017

**SECTION 2: Hazards identification**Expression Control  
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>	: pNTAP-A Expression Vector	No signal word.
	pNTAP-B Expression Vector	No signal word.
	pNTAP-C Expression Vector	No signal word.
	pCMV-Tag2-Mef2c Expression Control Vector	No signal word.
	pNTAP-Mef2a Expression Control Vector	No signal word.
<b>Hazard statements</b>	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
<b>Precautionary statements</b>		
<b>Prevention</b>	: pNTAP-A Expression Vector	Not applicable.
	pNTAP-B Expression Vector	Not applicable.
	pNTAP-C Expression Vector	Not applicable.
	pCMV-Tag2-Mef2c Expression Control Vector	Not applicable.
	pNTAP-Mef2a Expression Control Vector	Not applicable.
<b>Response</b>	: pNTAP-A Expression Vector	Not applicable.
	pNTAP-B Expression Vector	Not applicable.
	pNTAP-C Expression Vector	Not applicable.
	pCMV-Tag2-Mef2c Expression Control Vector	Not applicable.
	pNTAP-Mef2a Expression Control Vector	Not applicable.

**SECTION 2: Hazards identification**

<b>Storage</b>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a 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>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a 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>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

**SECTION 2: Hazards identification****2.3 Other hazards**

<b>Other hazards which do not result in classification</b>	: pNTAP-A Expression Vector	None known.
	pNTAP-B Expression Vector	None known.
	pNTAP-C Expression Vector	None known.
	pCMV-Tag2-Mef2c Expression Control Vector	None known.
	pNTAP-Mef2a Expression Control Vector	None known.

**SECTION 3: Composition/information on ingredients**

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

Type

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

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>	: pNTAP-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.
	pNTAP-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.
	pNTAP-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.
	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.
	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.
<b>Inhalation</b>	: pNTAP-A Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pNTAP-B Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pNTAP-C Expression 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.

**SECTION 4: First aid measures**

	Vector	symptoms occur.
	pNTAP-Mef2a	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Expression Control	
	Vector	
<b>Skin contact</b>	: pNTAP-A Expression Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pNTAP-B Expression Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pNTAP-C Expression 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.
	pNTAP-Mef2a Expression Control Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: pNTAP-A Expression Vector	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	pNTAP-B Expression Vector	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	pNTAP-C Expression Vector	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	pCMV-Tag2-Mef2c Expression Control Vector	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	pNTAP-Mef2a Expression Control Vector	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: pNTAP-A Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pNTAP-B Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pNTAP-C Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-Tag2-Mef2c Expression Control 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.

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

**SECTION 4: First aid measures**Potential acute health effects

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

Over-exposure signs/symptoms

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

**SECTION 4: First aid measures**

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

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

<b>Notes to physician</b>	:	pNTAP-A Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
		pNTAP-B Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
		pNTAP-C Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
		pCMV-Tag2-Mef2c Expression Control Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
		pNTAP-Mef2a Expression Control Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
	<b>Specific treatments</b>	:	pNTAP-A Expression Vector	No specific treatment.
			pNTAP-B Expression Vector	No specific treatment.
		pNTAP-C Expression Vector	No specific treatment.	
		pCMV-Tag2-Mef2c Expression Control Vector	No specific treatment.	
		pNTAP-Mef2a Expression Control Vector	No specific treatment.	

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: pNTAP-A Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
	pNTAP-B Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
	pNTAP-C Expression 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.
	pNTAP-Mef2a Expression Control Vector	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: pNTAP-A Expression Vector	None known.
	pNTAP-B Expression Vector	None known.
	pNTAP-C Expression Vector	None known.
	pCMV-Tag2-Mef2c Expression Control Vector	None known.
	pNTAP-Mef2a Expression Control Vector	None known.

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

<b>Hazards from the substance or mixture</b>	: pNTAP-A Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pNTAP-B Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pNTAP-C Expression 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.
	pNTAP-Mef2a Expression Control Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: pNTAP-A Expression Vector	No specific data.
	pNTAP-B Expression Vector	No specific data.
	pNTAP-C Expression Vector	No specific data.
	pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
	pNTAP-Mef2a Expression Control Vector	No specific data.

**5.3 Advice for firefighters**

<b>Special precautions for fire-fighters</b>	: pNTAP-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.
	pNTAP-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.
	pNTAP-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



## SECTION 5: Firefighting measures

<b>Special protective equipment for fire-fighters</b>	pCMV-Tag2-Mef2c Expression Control Vector	taken involving any personal risk or without suitable training. 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.
	: pNTAP-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.
	pNTAP-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.
	pNTAP-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.
	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.
	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.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: pNTAP-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.
	pNTAP-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. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	pNTAP-C 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.
	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.
	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.

**SECTION 6: Accidental release measures**

<b>For emergency responders</b>	: pNTAP-A Expression Vector	Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	pNTAP-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".
	pNTAP-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".
	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".
	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".
<b>6.2 Environmental precautions</b>	: pNTAP-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).
	pNTAP-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).
	pNTAP-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).
	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).
	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).
<b>6.3 Methods and material for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: pNTAP-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.
	pNTAP-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.
	pNTAP-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.
	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

## SECTION 6: Accidental release measures

pNTAP-Mef2a Expression Control Vector	place in an appropriate waste disposal container. Dispose of via a licensed waste 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.
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**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>	: pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
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<b>Advice on general occupational hygiene</b>	: pNTAP-A Expression Vector  pNTAP-B Expression Vector  pNTAP-C Expression Vector  pCMV-Tag2-Mef2c Expression Control Vector  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. 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. 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. 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.
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### 7.2 Conditions for safe storage, including any incompatibilities

**SECTION 7: Handling and storage**

<b>Storage</b>	: pNTAP-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.
	pNTAP-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.
	pNTAP-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.
	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.
	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.

**7.3 Specific end use(s)**

<b>Recommendations</b>	: pNTAP-A Expression Vector	Industrial applications, Professional applications.
	pNTAP-B Expression Vector	Industrial applications, Professional applications.
	pNTAP-C Expression Vector	Industrial applications, Professional applications.
	pCMV-Tag2-Mef2c Expression Control Vector	Industrial applications, Professional applications.
	pNTAP-Mef2a Expression Control Vector	Industrial applications, Professional applications.

## SECTION 7: Handling and storage

<b>Industrial sector specific solutions</b>	<b>Industrial sector specific solutions</b> :	pNTAP-A Expression Vector	Not applicable.
		pNTAP-B Expression Vector	Not applicable.
		pNTAP-C Expression Vector	Not applicable.
		pCMV-Tag2-Mef2c Expression Control Vector	Not applicable.
		pNTAP-Mef2a Expression Control Vector	Not applicable.

## 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

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

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

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

**SECTION 8: Exposure controls/personal protection**

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance**

- Physical state** : pNTAP-A Expression Vector Liquid.  
pNTAP-B Expression Vector Liquid.  
pNTAP-C Expression Vector Liquid.  
pCMV-Tag2-Mef2c Expression Control Vector Liquid.  
pNTAP-Mef2a Expression Control Vector Liquid.
- Colour** : pNTAP-A Expression Vector Not available.  
pNTAP-B Expression Vector Not available.  
pNTAP-C Expression Vector Not available.  
pCMV-Tag2-Mef2c Expression Control Vector Not available.  
pNTAP-Mef2a Expression Control Vector Not available.
- Odour** : pNTAP-A Expression Vector Not available.  
pNTAP-B Expression Vector Not available.  
pNTAP-C Expression Vector Not available.  
pCMV-Tag2-Mef2c Expression Control Vector Not available.  
pNTAP-Mef2a Expression Control Vector Not available.
- Odour threshold** : pNTAP-A Expression Vector Not available.  
pNTAP-B Expression Vector Not available.  
pNTAP-C Expression Vector Not available.  
pCMV-Tag2-Mef2c Expression Control Vector Not available.  
pNTAP-Mef2a Expression Control Vector Not available.

**SECTION 9: Physical and chemical properties**

	Vector	
<b>pH</b>	: pNTAP-A Expression Vector	7.5
	pNTAP-B Expression Vector	7.5
	pNTAP-C Expression Vector	7.5
	pCMV-Tag2-Mef2c Expression Control Vector	7.5
	pNTAP-Mef2a Expression Control Vector	7.5
<b>Melting point/freezing point</b>	: pNTAP-A Expression Vector	0°C
	pNTAP-B Expression Vector	0°C
	pNTAP-C Expression Vector	0°C
	pCMV-Tag2-Mef2c Expression Control Vector	0°C
	pNTAP-Mef2a Expression Control Vector	0°C
<b>Initial boiling point and boiling range</b>	: pNTAP-A Expression Vector	100°C
	pNTAP-B Expression Vector	100°C
	pNTAP-C Expression Vector	100°C
	pCMV-Tag2-Mef2c Expression Control Vector	100°C
	pNTAP-Mef2a Expression Control Vector	100°C
<b>Flash point</b>	: pNTAP-A Expression Vector	Not available.
	pNTAP-B Expression Vector	Not available.
	pNTAP-C Expression Vector	Not available.
	pCMV-Tag2-Mef2c Expression Control Vector	Not available.
	pNTAP-Mef2a Expression Control Vector	Not available.
<b>Evaporation rate</b>	: pNTAP-A Expression Vector	Not available.
	pNTAP-B Expression Vector	Not available.
	pNTAP-C Expression Vector	Not available.
	pCMV-Tag2-Mef2c Expression Control Vector	Not available.
	pNTAP-Mef2a Expression Control Vector	Not available.

**SECTION 9: Physical and chemical properties**

<b>Flammability (solid, gas)</b>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Upper/lower flammability or explosive limits</b>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Not available. Not available. Not available. Not available. Not available.
<b>Vapour pressure</b>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Not available. Not available. Not available. Not available. Not available.
<b>Vapour density</b>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Not available. Not available. Not available. Not available. Not available.
<b>Relative density</b>	:	pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Not available. Not available. Not available. Not available. Not available.



**SECTION 9: Physical and chemical properties**

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

**SECTION 9: Physical and chemical properties**

<b>Explosive properties</b>	:	pNTAP-A Expression Vector	Not available.
		pNTAP-B Expression Vector	Not available.
		pNTAP-C Expression Vector	Not available.
		pCMV-Tag2-Mef2c Expression Control Vector	Not available.
		pNTAP-Mef2a Expression Control Vector	Not available.
<b>Oxidising properties</b>	:	pNTAP-A Expression Vector	Not available.
		pNTAP-B Expression Vector	Not available.
		pNTAP-C Expression Vector	Not available.
		pCMV-Tag2-Mef2c Expression Control Vector	Not available.
		pNTAP-Mef2a Expression Control Vector	Not available.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	:	pNTAP-A Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
		pNTAP-B Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
		pNTAP-C Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
		pCMV-Tag2-Mef2c Expression Control Vector	No specific test data related to reactivity available for this product or its ingredients.
		pNTAP-Mef2a Expression Control Vector	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	:	pNTAP-A Expression Vector	The product is stable.
		pNTAP-B Expression Vector	The product is stable.
		pNTAP-C Expression Vector	The product is stable.
		pCMV-Tag2-Mef2c Expression Control Vector	The product is stable.
		pNTAP-Mef2a Expression Control Vector	The product is stable.

**SECTION 10: Stability and reactivity**

<b>10.3 Possibility of hazardous reactions</b>	: pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a 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>	: pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a 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>	: pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a Expression Control Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**Acute toxicity

Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion**Conclusion/Summary** : Not available.**Date of issue/Date of revision** : 28/03/2017

**SECTION 11: Toxicological information****Sensitiser**

**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**

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

**Potential acute health effects****Inhalation**

pNTAP-A Expression Vector	No known significant effects or critical hazards.
pNTAP-B Expression Vector	No known significant effects or critical hazards.
pNTAP-C Expression Vector	No known significant effects or critical hazards.
pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.

**Ingestion**

pNTAP-A Expression Vector	No known significant effects or critical hazards.
pNTAP-B Expression Vector	No known significant effects or critical hazards.
pNTAP-C Expression Vector	No known significant effects or critical hazards.
pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.

**Skin contact**

pNTAP-A Expression Vector	No known significant effects or critical hazards.
pNTAP-B Expression Vector	No known significant effects or critical hazards.
pNTAP-C Expression Vector	No known significant effects or critical hazards.
pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

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

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

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

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

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

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

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

**SECTION 11: Toxicological information****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>	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.

## SECTION 11: Toxicological information

<b>Developmental effects</b>	: pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a 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>Fertility effects</b>	: pNTAP-A Expression Vector pNTAP-B Expression Vector pNTAP-C Expression Vector pCMV-Tag2-Mef2c Expression Control Vector pNTAP-Mef2a 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.

## 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<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

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

## 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

### Regulatory information

**ADR/RID / IMDG / IATA** : Not regulated.

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

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

## SECTION 15: Regulatory information

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

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

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

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

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

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

### Other EU regulations

**Europe inventory** : All components are listed or exempted.

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

Not listed.

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

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

### International regulations

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

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.



## SECTION 15: Regulatory information

### [Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

### [International lists](#)

#### [National inventory](#)

<a href="#">Australia</a>	: All components are listed or exempted.
<a href="#">Canada</a>	: All components are listed or exempted.
<a href="#">China</a>	: All components are listed or exempted.
<a href="#">Japan</a>	: <b>Japan inventory (ENCS)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<a href="#">Malaysia</a>	: Not determined.
<a href="#">New Zealand</a>	: All components are listed or exempted.
<a href="#">Philippines</a>	: All components are listed or exempted.
<a href="#">Republic of Korea</a>	: All components are listed or exempted.
<a href="#">Taiwan</a>	: All components are listed or exempted.
<a href="#">Turkey</a>	: Not determined.
<a href="#">United States</a>	: All components are listed or exempted.

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

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

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

### [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.

**Date of issue/ Date of revision** : 28/03/2017

**Date of previous issue** : No previous validation.

**Version** : 1

### [Notice to reader](#)

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