

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

| | | |
|-----------------------|---|--|
| Product name | : | InterPlay C-terminal Mammalian TAP Vectors, Part Number 240102 |
| Part No. (Kit) | : | 240102 |
| Part No. | : | 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

| Identified uses | |
|---|-------------------------|
| 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 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 | : | pCTAP-A Expression Vector Mixture |
| | | pCTAP-B Expression Vector Mixture |
| | | pCTAP-C Expression Vector Mixture |
| | | pNTAP-Mef2a Expression Control Mixture |

Date of issue/Date of revision : 26/05/2017

SECTION 2: Hazards identification

Vector
pCMV-Tag2-Mef2c Mixture
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

Signal word : pCTAP-A Expression Vector No signal word.
pCTAP-B Expression Vector No signal word.
pCTAP-C Expression Vector No signal word.
pNTAP-Mef2a Expression Control Vector No signal word.
pCMV-Tag2-Mef2c Expression Control Vector No signal word.

Hazard statements : **Precautionary statements**

Prevention : 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.

Response : 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.

Storage : 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.

SECTION 2: Hazards identification

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| | pCMV-Tag2-Mef2c Expression Control Vector | Not applicable. |
| Disposal | : 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. |
| Supplemental label elements | : 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. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : 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. |
| Special packaging requirements | | |
| Tactile warning of danger | : 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. |

2.3 Other hazards

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SECTION 2: Hazards identification

| | | |
|--|---|-------------|
| Other hazards which do not result in classification | : 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. |

SECTION 3: Composition/information on ingredients

| | | |
|-----------------------|---|---------|
| 3.1 Substances | : 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.

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

| | | |
|--------------------|---|---|
| Eye contact | : 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. |
| Inhalation | : 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 | Remove victim to fresh air and keep at rest in a position |

SECTION 4: First aid measures

| | | |
|-----------------------------------|---|---|
| | Expression Control Vector | 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. |
| Skin contact | : 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. |
| Ingestion | : pCTAP-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. |
| | pCTAP-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. |
| | pCTAP-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. |
| | 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. |
| | 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. |
| Protection of first-aiders | : 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. |
| | pCMV-Tag2-Mef2c Expression Control Vector | No action shall be taken involving any personal risk or without suitable training. |

SECTION 4: First aid measures

Vector

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

| | | |
|---------------------|---|---|
| Eye contact | : 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. |
| Inhalation | : 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. |
| Skin contact | : 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. |
| Ingestion | : 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. |

Over-exposure signs/symptoms

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SECTION 4: First aid measures

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|---------------------|---|---|
| Eye contact | : 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. |
| Inhalation | : 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. |
| Skin contact | : 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. |
| Ingestion | : 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

| | | |
|---------------------------|---|---|
| Notes to physician | : pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c | 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. Treat symptomatically. Contact poison treatment specialist |
|---------------------------|---|---|

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SECTION 4: First aid measures

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| | Expression Control Vector | immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : 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

| | | |
|---------------------------------------|---|---|
| Suitable extinguishing media | : 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. |
| Unsuitable extinguishing media | : 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

| | | |
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| Hazards from the substance or mixture | : 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. |

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SECTION 5: Firefighting measures

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| Hazardous combustion products | : 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. |

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. |

| | | |
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| 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

| | | | |
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| 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. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| | | pCTAP-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. |
| | | 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. |
| For emergency responders | : | 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". |
| 6.2 Environmental precautions | : | 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 | Avoid dispersal of spilt material and runoff and contact with |

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SECTION 6: Accidental release measures

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| Expression Control Vector | 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

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| Methods for cleaning up | : | 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

| | | | |
|----------------------------|---|---|---|
| Protective measures | : | 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). |

SECTION 7: Handling and storage

| | | |
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| Advice on general occupational hygiene | : 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. |
| | 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. |
| | 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. |
| | 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. |
| | pNTAP-Mef2a Expression Control | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and |

SECTION 7: Handling and storage

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|---|---|
| Vector | 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. |

7.3 Specific end use(s)

| | | |
|---|---|---|
| Recommendations | : pCTAP-A Expression Vector | Industrial applications, Professional applications. |
| | pCTAP-B Expression Vector | Industrial applications, Professional applications. |
| | pCTAP-C Expression Vector | Industrial applications, Professional applications. |
| | pNTAP-Mef2a Expression Control Vector | Industrial applications, Professional applications. |
| | pCMV-Tag2-Mef2c Expression Control Vector | Industrial applications, Professional applications. |
| Industrial sector specific solutions | : 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 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 |
|--|---|

SECTION 8: Exposure controls/personal protection

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.

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 | : | 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. |

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SECTION 9: Physical and chemical properties

| | | | |
|-------------------------------------|---|---|--|
| Colour | : | 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. |
| Odour | : | 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. |
| Odour threshold | : | 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. |
| pH | : | 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 |
| Melting point/freezing point | : | pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector | 0°C 0°C 0°C 0°C 0°C |

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SECTION 9: Physical and chemical properties

| | | | |
|---|---|---|---|
| Initial boiling point and boiling range | : | pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector | 100°C 100°C 100°C 100°C 100°C |
| Flash point | : | 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. |
| Evaporation rate | : | 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. |
| Flammability (solid, gas) | : | 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. |
| Upper/lower flammability or explosive limits | : | 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. |

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SECTION 9: Physical and chemical properties

| | | | |
|---|---|---|--|
| Vapour pressure | : | 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. |
| Vapour density | : | 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. |
| Relative density | : | 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. |
| Solubility(ies) | : | 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. |
| Partition coefficient: n-octanol/water | : | 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 9: Physical and chemical properties

| | | |
|----------------------------------|---|----------------|
| Auto-ignition temperature | : 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. |
| | | |
| Decomposition temperature | : 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. |
| | | |
| Viscosity | : 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. |
| | | |
| Explosive properties | : 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. |
| | | |
| Oxidising properties | : 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. |
| | | |

SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

| | | |
|--|---|--|
| 10.1 Reactivity | : 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 test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : 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. |
| 10.3 Possibility of hazardous reactions | : 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. |
| 10.4 Conditions to avoid | : 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. |

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SECTION 10: Stability and reactivity

| | | |
|--|---|--|
| 10.5 Incompatible materials | : 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. |
| 10.6 Hazardous decomposition products | : 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 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.

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 | : 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 11: Toxicological information

Potential acute health effects

| | | |
|---------------------|---|---|
| Inhalation | : 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. |
| | | |
| Ingestion | : 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. |
| | | |
| Skin contact | : 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. |
| | | |
| Eye contact | : 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. |
| | | |

Symptoms related to the physical, chemical and toxicological characteristics

| | | |
|-------------------|---|-------------------|
| Inhalation | : 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. |
| | | |

SECTION 11: Toxicological information

| | | |
|---------------------|---|-------------------|
| | Expression Control Vector | |
| Ingestion | : 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. |
| Skin contact | : 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. |
| Eye contact | : 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

| | | |
|----------------|--------------------------------|---|
| General | : 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 | No known significant effects or critical hazards. |

SECTION 11: Toxicological information

| | | |
|------------------------------|----------------------|---|
| | Vector | |
| | pCMV-Tag2-Mef2c | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| Carcinogenicity | : pCTAP-A Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-B Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-C Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pNTAP-Mef2a | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| | pCMV-Tag2-Mef2c | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| Mutagenicity | : pCTAP-A Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-B Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-C Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pNTAP-Mef2a | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| | pCMV-Tag2-Mef2c | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| Teratogenicity | : pCTAP-A Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-B Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-C Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pNTAP-Mef2a | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| | pCMV-Tag2-Mef2c | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| Developmental effects | : pCTAP-A Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-B Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-C Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pNTAP-Mef2a | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| | pCMV-Tag2-Mef2c | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |
| Fertility effects | : pCTAP-A Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-B Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pCTAP-C Expression | No known significant effects or critical hazards. |
| | Vector | |
| | pNTAP-Mef2a | No known significant effects or critical hazards. |
| | Expression Control | |
| | Vector | |

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SECTION 11: Toxicological information

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

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Hazardous waste : 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 : 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.

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SECTION 14: Transport information

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 :

| | |
|---|-----------------|
| 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

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| | |
|--------------------|--|
| Australia | : All components are listed or exempted. |
| Canada | : All components are listed or exempted. |
| China | : All components are listed or exempted. |
| Europe | : All components are listed or exempted. |
| Japan | : Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted. |
| Malaysia | : Not determined. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : All components are listed or exempted. |

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SECTION 15: Regulatory information

| | |
|--------------------------|--|
| Republic of Korea | : All components are listed or exempted. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : Not determined. |
| Turkey | : Not determined. |
| United States | : All components are listed or exempted. |
| Viet Nam | : Not determined. |

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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 : 26/05/2017

Date of previous issue : No previous validation.

Version : 1

Notice to reader

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