SAFETY DATA SHEET



InterPlay C-terminal Mammalian TAP Vectors, Part Number 240102

Section 1. Identification

Product identifier : InterPlay C-terminal Mammalian TAP Vectors, Part Number 240102

Part no. (chemical 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

: Analytical reagent. **Material uses**

> pCTAP-A Expression Vector $0.02 \text{ ml} (20 \mu g \ 1 \mu g/\mu l)$ pCTAP-B Expression Vector 0.02 ml (20ug 1ug/ul) pCTAP-C Expression Vector $0.02 \text{ ml} (20 \mu \text{g} 1 \mu \text{g/\mul})$ pNTAP-Mef2a Expression Control Vector $0.03 \text{ ml} (30 \mu g \ 1 \mu g/\mu l)$ pCMV-Tag2-Mef2c Expression Control Vector 0.03 ml (30 µg 1 µg/µl)

: Agilent Technologies, Inc. Supplier/Manufacturer

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of operation)

: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Not classified.

GHS 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 No signal word. Control Vector

pCMV-Tag2-Mef2c **Expression Control Vector**

No signal word.

Hazard statements : 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 No known significant effects or critical hazards.

Control Vector pCMV-Tag2-Mef2c

No known significant effects or critical hazards. **Expression Control Vector**

Precautionary statements

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Section 2. Hazard identification

Prevention : pCTAP-A Expression Vector Not applicable. pCTAP-B Expression Vector Not applicable. pCTAP-C Expression Vector Not applicable. Not applicable. pNTAP-Mef2a Expression Control Vector

> pCMV-Tag2-Mef2c Not applicable.

Expression Control Vector

Response pCTAP-A Expression Vector Not applicable. pCTAP-B Expression Vector Not applicable.

pCTAP-C Expression Vector Not applicable. pNTAP-Mef2a Expression Not applicable.

Control Vector

pCMV-Tag2-Mef2c Not applicable.

Expression Control Vector

Storage : pCTAP-A Expression Vector Not applicable.

pCTAP-B Expression Vector Not applicable. pCTAP-C Expression Vector Not applicable. Not applicable. pNTAP-Mef2a Expression

Control Vector

pCMV-Tag2-Mef2c Not applicable.

Expression Control Vector

Disposal : pCTAP-A Expression Vector Not applicable.

pCTAP-B Expression Vector Not applicable. pCTAP-C Expression Vector Not applicable. pNTAP-Mef2a Expression Not applicable.

Control Vector

pCMV-Tag2-Mef2c Not applicable.

Expression Control Vector

Supplemental label

elements

: pCTAP-A Expression Vector None known. pCTAP-B Expression Vector None known. pCTAP-C Expression Vector None known. pNTAP-Mef2a Expression None known. Control Vector

pCMV-Tag2-Mef2c None known.

Expression Control Vector

Other hazards which do not : result in classification

None known. pCTAP-A Expression Vector pCTAP-B Expression Vector None known. pCTAP-C Expression Vector None known. pNTAP-Mef2a Expression None known. Control Vector

pCMV-Tag2-Mef2c None known.

Expression Control Vector

Section 3. Composition/information on ingredients

Substance/mixture : pCTAP-A Expression Vector

Mixture pCTAP-B Expression Vector Mixture pCTAP-C Expression Vector Mixture pNTAP-Mef2a Expression Mixture

Control Vector

pCMV-Tag2-Mef2c Mixture

Expression Control Vector

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 and hence require reporting in this section.

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

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Section 4. First-aid measures

Description of necessary first aid measures

Eye contact

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 Immediately flush eyes with plenty of water, Control Vector occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, pCMV-Tag2-Mef2c **Expression Control Vector** occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Inhalation Remove victim to fresh air and keep at rest in a : pCTAP-A Expression Vector position comfortable for breathing. Get medical attention if symptoms occur. pCTAP-B Expression Vector Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. pCTAP-C Expression Vector Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. pNTAP-Mef2a Expression Remove victim to fresh air and keep at rest in a Control Vector position comfortable for breathing. Get medical attention if symptoms occur. pCMV-Tag2-Mef2c Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical **Expression Control Vector** 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 Flush contaminated skin with plenty of water. Control Vector Remove contaminated clothing and shoes. Get medical attention if symptoms occur. pCMV-Tag2-Mef2c Flush contaminated skin with plenty of water. **Expression Control Vector** Remove contaminated clothing and shoes. Get medical attention if symptoms occur. : pCTAP-A Expression Vector Ingestion Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. pCTAP-B Expression Vector Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce

: pCTAP-A Expression Vector Immediately flush eyes with plenty of water,

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Section 4. First-aid measures

pCTAP-C Expression Vector

personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

vomiting unless directed to do so by medical

pNTAP-Mef2a Expression **Control Vector**

personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

pCMV-Tag2-Mef2c **Expression Control Vector**

personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation

Ingestion

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

: pCTAP-A Expression Vector

pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector

pCMV-Tag2-Mef2c **Expression Control Vector**

Skin contact : pCTAP-A Expression Vector

pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector

pCMV-Tag2-Mef2c

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.

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.

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.

Expression Control Vector

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 No known significant effects or critical hazards. Control Vector

pCMV-Tag2-Mef2c No known significant effects or critical hazards. **Expression Control Vector**

Over-exposure signs/symptoms

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.

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Section 4. First-aid measures

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 No specific data.

Control Vector

pCMV-Tag2-Mef2c No specific data.

Expression Control Vector

Skin contact : pCTAP-A Expression Vector No specific data. pCTAP-B Expression Vector No specific data.

pCTAP-C Expression Vector No specific data. No specific data. pNTAP-Mef2a Expression

Control Vector

pCMV-Tag2-Mef2c No specific data.

Expression Control Vector

Ingestion : pCTAP-A Expression Vector No specific data.

> pCTAP-B Expression Vector pCTAP-C Expression Vector No specific data. pNTAP-Mef2a Expression

Control Vector

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

No specific data.

No specific data.

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

Notes to physician : pCTAP-A Expression Vector Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

pCTAP-B Expression Vector Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

pCTAP-C Expression 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.

pCMV-Tag2-Mef2c

Expression Control Vector

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments : 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 treatment. No specific treatment.

No specific treatment. No specific treatment.

No specific treatment.

Protection of first-aiders

: pCTAP-A Expression Vector

No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk pCTAP-B Expression Vector

or without suitable training.

No action shall be taken involving any personal risk pCTAP-C Expression Vector

or without suitable training.

pNTAP-Mef2a Expression

Control Vector pCMV-Tag2-Mef2c No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk

Expression Control Vector or without suitable training.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

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.

None known.

None known.

None known.

None known.

pCMV-Tag2-Mef2c **Expression Control Vector** Use an extinguishing agent suitable for the

surrounding fire.

Unsuitable extinguishing media

: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector

pNTAP-Mef2a Expression

Control Vector pCMV-Tag2-Mef2c

Expression Control Vector

None known.

Specific hazards arising from the chemical

Hazardous thermal

decomposition products

: 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

pCMV-Tag2-Mef2c

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

Expression Control Vector

: 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.

Special protective actions 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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Section 5. Fire-fighting measures

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.

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.

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.

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.

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: pCTAP-A Expression Vector No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

personnel from entering. Do not touch or walk through spilled 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 spilled 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 spilled 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 spilled 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 spilled material. Put on appropriate personal

protective equipment.

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Section 6. Accidental release measures

For emergency responders : pCTAP-A Expression Vector

pCTAP-B Expression Vector

pCTAP-C Expression Vector

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the

If specialized clothing is required to deal with the

specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable restarials.

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

pNTAP-Mef2a Expression Control Vector

pCMV-Tag2-Mef2c Expression Control Vector

Environmental precautions

: pCTAP-A Expression Vector

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

pCTAP-B Expression Vector Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

pCTAP-C Expression Vector Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

pNTAP-Mef2a Expression

Control Vector

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

pCMV-Tag2-Mef2c Expression Control Vector Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

Methods and materials for containment and cleaning up

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

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Section 6. Accidental release measures

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.

Section 7. Handling and storage

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

pCMV-Tag2-Mef2c

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment **Expression Control Vector** (see Section 8).

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

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pCMV-Tag2-Mef2c **Expression Control Vector** 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.

Conditions for safe storage, : pCTAP-A Expression Vector including any incompatibilities

pCTAP-B Expression Vector

pCTAP-C Expression Vector

pNTAP-Mef2a Expression Control Vector

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in

original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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

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Section 7. Handling and storage

prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

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

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

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

Skin protection Hand protection

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

Body protection

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

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

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Section 9. Physical and chemical properties and safety characteristics

Physical state	:	pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector	Liquid. Liquid. Liquid. Liquid. Liquid.
Color	:	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.
Odor	:	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.
Odor 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 (32°F) 0°C (32°F) 0°C (32°F) 0°C (32°F)
Boiling point, initial boiling point, and boiling range	:		100°C (212°F) 100°C (212°F) 100°C (212°F) 100°C (212°F) 100°C (212°F)
Flash point	:	Expression Control Vector	, ,

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Section 9. Physical and chemical properties and safety characteristics

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

Evaporation rate

: pCTAP-A Expression Vector Not available.

pCTAP-B Expression Vector Not available. pCTAP-C Expression Vector pNTAP-Mef2a Expression Not available.

Control Vector pCMV-Tag2-Mef2c Not available.

Expression Control Vector

Flammability : pCTAP-A Expression Vector Not applicable.

pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Not applicable. Not applicable.

Control Vector

pCMV-Tag2-Mef2c Not applicable.

Expression Control Vector

Lower and upper explosion limit/flammability limit

: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Not available.

Control Vector

pCMV-Tag2-Mef2c Not available.

Expression Control Vector

Vapor pressure

Vapo	Vapor Pressure at 20°C			Vapor pressure at 50°C		
mm Hg	kPa	Method	mm Hg	kPa	Method	
	_	Vapor Press mm Hg kPa	1	mm Hg kPa Method mm	mm Hg kPa Method mm kPa	

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Section 9. Physical and chemical properties and safety characteristics

	,			
pCTAP-A Expression Vector				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
pCTAP-B Expression Vector				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
pCTAP-C Expression Vector				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
pNTAP-Mef2a Expression Control Vector				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
pCMV-Tag2-Mef2c Expression Control Vector				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001

Relative vapor density

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

Not available.

Relative density

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

Expression Control Vector

Not available.

pCMV-Tag2-Mef2c **Expression Control Vector**

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Section 9 Physical and chemical properties and safety

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characteristics		
Solubility	: pCTAP-A Expression Vector	Easily soluble in the following

pCTAP-B Expression Vector

Easily soluble in the following materials: cold water

and hot water.

Easily soluble in the following materials: cold water

and hot water.

pCTAP-C Expression 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.

pCMV-Tag2-Mef2c **Expression Control Vector** Easily soluble in the following materials: cold water

and hot water.

Partition coefficient: noctanol/water

: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression

Not applicable. Not applicable. Not applicable. Not applicable.

Control Vector pCMV-Tag2-Mef2c

Not applicable.

Expression Control Vector

Auto-ignition temperature

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

Decomposition temperature

: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression

Not available. Not available.

Control Vector

Not available. Not available.

pCMV-Tag2-Mef2c **Expression Control Vector** Not available.

Viscosity

: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression

Not available. Not available. Not available.

Control Vector

Not available. Not available.

pCMV-Tag2-Mef2c **Expression Control Vector**

Particle characteristics

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Section 9. Physical and chemical properties and safety characteristics

Median particle size

: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c **Expression Control Vector**

Not applicable. Not applicable. Not applicable. Not applicable.

Not applicable.

Section 10. Stability and reactivity

Reactivity

: pCTAP-A Expression Vector

No specific test data related to reactivity available for

this product or its ingredients.

pCTAP-B Expression Vector

No specific test data related to reactivity available for

this product or its ingredients.

pCTAP-C Expression 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.

pCMV-Tag2-Mef2c **Expression Control Vector**

No specific test data related to reactivity available for this product or its ingredients.

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.

Possibility of hazardous reactions

: pCTAP-A Expression Vector

Under normal conditions of storage and use,

hazardous reactions will not occur.

pCTAP-B Expression Vector Under normal conditions of storage and use.

hazardous reactions will not occur.

pCTAP-C Expression Vector Under normal conditions of storage and use,

hazardous reactions will not occur.

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.

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.

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 oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.

May react or be incompatible with oxidizing materials.

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Section 10. Stability and reactivity

Hazardous decomposition products

: pCTAP-A Expression Vector Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Under normal conditions of storage and use, pCTAP-B Expression Vector

hazardous decomposition products should not be

produced.

pCTAP-C Expression Vector Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

pNTAP-Mef2a Expression

Control Vector

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

pCMV-Tag2-Mef2c **Expression Control Vector**

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available. Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: pCTAP-A Expression Vector Not available. pCTAP-B Expression Vector pCTAP-C Expression Vector Not available.

Not available. Not available.

pNTAP-Mef2a Expression Control Vector

pCMV-Tag2-Mef2c **Expression Control Vector** Not available.

Potential acute health effects

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Section 11. Toxicological information

: pCTAP-A Expression Vector **Eye contact** 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 No known significant effects or critical hazards. Control Vector pCMV-Tag2-Mef2c No known significant effects or critical hazards. **Expression Control Vector** 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. No known significant effects or critical hazards. pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c No known significant effects or critical hazards. **Expression Control Vector** 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 No known significant effects or critical hazards. Control Vector pCMV-Tag2-Mef2c No known significant effects or critical hazards. **Expression Control Vector** 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 No known significant effects or critical hazards. Control Vector pCMV-Tag2-Mef2c No known significant effects or critical hazards. **Expression Control Vector**

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms related to the p	<u>hysical, chemical and toxicological characteristics</u>
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
Inhalation	: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression Control Vector pCMV-Tag2-Mef2c Expression Control Vector
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
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

Expression Control Vector

Control Vector
pCMV-Tag2-Mef2c

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No specific data.

No specific data.

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

effects

Potential delayed effects

: Not available.

: Not available.

Long term exposure

Carcinogenicity

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : 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.

: pCTAP-A Expression Vector pCTAP-B Expression Vector pCTAP-C Expression Vector pNTAP-Mef2a Expression

Control Vector

Expression Control Vector

pCMV-Tag2-Mef2c No known significant effects or critical hazards.

Mutagenicity : pCTAP-A Expression Vector No known significant effects or critical hazards.

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.

Reproductive toxicity CTAP-A Expression Vector No known significant effects or critical hazards.

> 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.

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.

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.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

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Section 12. Ecological information

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

Disposal methods

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

Transport in bulk according: Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I. II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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Section 15. Regulatory information

Inventory list

Australia : Not determined.

Canada : Not determined.

China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States: All components are active or exempted.

Viet Nam : Not determined.

Section 16. Other information

History

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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