


SAFETY DATA SHEET

InterPlay N-terminal Mammalian TAP Vectors

Section 1. Identification

1.1 Product identifier


Product name :  InterPlay N-terminal Mammalian TAP Vectors


Part no. (chemical kit) : 240101

Part no. : pNTAP-A Expression Vector 240101-51
pNTAP-B Expression Vector 240101-52
pNTAP-C Expression Vector 240101-53
pCMV-Tag2-Mef2c Expression Control Vector 240101-54
pNTAP-Mef2a Expression Control Vector 240101-55

Validation date : 6/21/2024

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

Identified uses :  Analytical reagent.

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

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

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

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

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

pCMV-Tag2-Mef2c Expression Control Vector While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information

Section 2. Hazards identification

pNTAP-Mef2a Expression
Control Vector

critical to the safe handling and proper use of the product.
This SDS should be retained and available for employees
and other users of this product.

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

Classification of the substance or mixture

Not classified.

2.2 GHS label elements

Signal word

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

Hazard statements

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

Precautionary statements

Prevention

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

Response

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

Storage

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

Disposal

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

Section 2. Hazards identification

Supplemental label elements	:	pNTAP-A Expression Vector	None known.
		pNTAP-B Expression Vector	None known.
		pNTAP-C Expression Vector	None known.
		pCMV-Tag2-Mef2c Expression Control Vector	None known.
		pNTAP-Mef2a Expression Control Vector	None known.

2.3 Other hazards

Hazards not otherwise classified	:	pNTAP-A Expression Vector	None known.
		pNTAP-B Expression Vector	None known.
		pNTAP-C Expression Vector	None known.
		pCMV-Tag2-Mef2c Expression Control Vector	None known.
		pNTAP-Mef2a Expression Control Vector	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	pNTAP-A Expression Vector	Mixture
		pNTAP-B Expression Vector	Mixture
		pNTAP-C Expression Vector	Mixture
		pCMV-Tag2-Mef2c Expression Control Vector	Mixture
		pNTAP-Mef2a Expression Control Vector	Mixture

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	:	pNTAP-A Expression Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		pNTAP-B Expression Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		pNTAP-C Expression Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		pCMV-Tag2-Mef2c Expression Control Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		pNTAP-Mef2a Expression Control Vector	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Section 4. First aid measures

Inhalation

: pNTAP-A Expression Vector

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

pNTAP-B Expression Vector

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

pNTAP-C Expression Vector

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

pCMV-Tag2-Mef2c Expression Control Vector

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

pNTAP-Mef2a Expression Control Vector

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

: pNTAP-A Expression Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pNTAP-B Expression Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pNTAP-C Expression Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pCMV-Tag2-Mef2c Expression Control Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

pNTAP-Mef2a Expression Control Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

: pNTAP-A Expression Vector

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

pNTAP-B Expression Vector

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

pNTAP-C Expression Vector

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

pCMV-Tag2-Mef2c Expression Control Vector

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

pNTAP-Mef2a Expression Control Vector

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

Section 4. First aid measures

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Over-exposure signs/symptoms

Eye contact	: pNTAP-A Expression Vector	No specific data.
	pNTAP-B Expression Vector	No specific data.
	pNTAP-C Expression Vector	No specific data.
	pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
	pNTAP-Mef2a Expression Control Vector	No specific data.
Inhalation	: pNTAP-A Expression Vector	No specific data.
	pNTAP-B Expression Vector	No specific data.
	pNTAP-C Expression Vector	No specific data.
	pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
	pNTAP-Mef2a Expression Control Vector	No specific data.
Skin contact	: pNTAP-A Expression Vector	No specific data.
	pNTAP-B Expression Vector	No specific data.
	pNTAP-C Expression Vector	No specific data.
	pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
	pNTAP-Mef2a Expression Control Vector	No specific data.

Section 4. First aid measures

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

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

Notes to physician	: pNTAP-A Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pNTAP-B Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pNTAP-C Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-Tag2-Mef2c Expression Control Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pNTAP-Mef2a Expression Control Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pNTAP-A Expression Vector	No specific treatment.
	pNTAP-B Expression Vector	No specific treatment.
	pNTAP-C Expression Vector	No specific treatment.
	pCMV-Tag2-Mef2c Expression Control Vector	No specific treatment.
	pNTAP-Mef2a Expression Control Vector	No specific treatment.
Protection of first-aiders	: pNTAP-A Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pNTAP-B Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pNTAP-C Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-Tag2-Mef2c Expression Control Vector	No action shall be taken involving any personal risk or without suitable training.
	pNTAP-Mef2a Expression Control Vector	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

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

Section 5. Fire-fighting measures

Unsuitable extinguishing media	: pNTAP-A Expression Vector	None known.
	pNTAP-B Expression Vector	None known.
	pNTAP-C Expression Vector	None known.
	pCMV-Tag2-Mef2c Expression Control Vector	None known.
	pNTAP-Mef2a Expression Control Vector	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: pNTAP-A Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pNTAP-B Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pNTAP-C Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCMV-Tag2-Mef2c Expression Control Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pNTAP-Mef2a Expression Control Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: pNTAP-A Expression Vector	No specific data.
	pNTAP-B Expression Vector	No specific data.
	pNTAP-C Expression Vector	No specific data.
	pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
	pNTAP-Mef2a Expression Control Vector	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: pNTAP-A Expression Vector	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	pNTAP-B Expression Vector	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	pNTAP-C Expression Vector	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be 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.
	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.
Special protective equipment for fire-fighters	: pNTAP-A Expression Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pNTAP-B Expression Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pNTAP-C Expression Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

Section 5. Fire-fighting measures

pCMV-Tag2-Mef2c Expression
Control Vector

(SCBA) with a full face-piece operated in positive pressure mode.

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.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency
personnel**

: pNTAP-A Expression Vector

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

pNTAP-B Expression Vector

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

pNTAP-C Expression Vector

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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.

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.

For emergency responders : pNTAP-A Expression Vector

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

pNTAP-B Expression Vector

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

pNTAP-C Expression Vector

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

pCMV-Tag2-Mef2c Expression
Control Vector

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

Section 6. Accidental release measures

6.2 Environmental precautions

pNTAP-Mef2a Expression Control Vector	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
: pNTAP-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).
pNTAP-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).
pNTAP-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).
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).
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).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : pNTAP-A Expression Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
pNTAP-B Expression Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
pNTAP-C Expression Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
pCMV-Tag2-Mef2c Expression Control Vector	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and 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

Section 6. Accidental release measures

inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: pNTAP-A Expression Vector

Put on appropriate personal protective equipment (see Section 8).

pNTAP-B Expression Vector

Put on appropriate personal protective equipment (see Section 8).

pNTAP-C Expression 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).

pNTAP-Mef2a Expression Control Vector

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: pNTAP-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.

pNTAP-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.

pNTAP-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.

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.

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.

Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: pNTAP-A Expression Vector

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

pNTAP-B Expression Vector

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

pNTAP-C Expression Vector

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

pCMV-Tag2-Mef2c Expression Control Vector

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

pNTAP-Mef2a Expression Control Vector

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

7.3 Specific end use(s)

Section 7. Handling and storage

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

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

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

Individual protection measures

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

Section 8. Exposure controls/personal protection

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

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	pNTAP-A Expression Vector	Liquid.
	pNTAP-B Expression Vector	Liquid.
	pNTAP-C Expression Vector	Liquid.
	pCMV-Tag2-Mef2c Expression	Liquid.
	Control Vector	
	pNTAP-Mef2a Expression Control Vector	Liquid.
Color	pNTAP-A Expression Vector	Not available.
	pNTAP-B Expression Vector	Not available.
	pNTAP-C Expression Vector	Not available.
	pCMV-Tag2-Mef2c Expression	Not available.
	Control Vector	
	pNTAP-Mef2a Expression Control Vector	Not available.
Odor	pNTAP-A Expression Vector	Not available.
	pNTAP-B Expression Vector	Not available.
	pNTAP-C Expression Vector	Not available.
	pCMV-Tag2-Mef2c Expression	Not available.
	Control Vector	
	pNTAP-Mef2a Expression Control Vector	Not available.
Odor threshold	pNTAP-A Expression Vector	Not available.
	pNTAP-B Expression Vector	Not available.
	pNTAP-C Expression Vector	Not available.
	pCMV-Tag2-Mef2c Expression	Not available.
	Control Vector	
	pNTAP-Mef2a Expression Control Vector	Not available.
pH	pNTAP-A Expression Vector	7.5
	pNTAP-B Expression Vector	7.5
	pNTAP-C Expression Vector	7.5
	pCMV-Tag2-Mef2c Expression	7.5
	Control Vector	
	pNTAP-Mef2a Expression Control Vector	7.5
Melting point/freezing point	pNTAP-A Expression Vector	0°C (32°F)
	pNTAP-B Expression Vector	0°C (32°F)
	pNTAP-C Expression Vector	0°C (32°F)
	pCMV-Tag2-Mef2c Expression	0°C (32°F)
	Control Vector	
	pNTAP-Mef2a Expression Control Vector	0°C (32°F)

Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range :

pNTAP-A Expression Vector	100°C (212°F)
pNTAP-B Expression Vector	100°C (212°F)
pNTAP-C Expression Vector	100°C (212°F)
pCMV-Tag2-Mef2c Expression	100°C (212°F)
Control Vector	
pNTAP-Mef2a Expression Control Vector	100°C (212°F)

Flash point :

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

Evaporation rate :


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

Flammability :

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

Lower and upper explosion limit/flammability limit :

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

Vapor pressure	Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	 pNTAP-A Expression Vector						
	water	17.5	2.3	-	92.258	12.3	-
	pNTAP-B Expression Vector						
	water	17.5	2.3	-	92.258	12.3	-
	pNTAP-C Expression Vector						
	water	17.5	2.3	-	92.258	12.3	-
	pCMV-Tag2-Mef2c Expression						

Section 9. Physical and chemical properties and safety characteristics

	Control Vector						
	water	17.5	2.3	-	92.258	12.3	-
	pNTAP-Mef2a Expression Control Vector						
	water	17.5	2.3	-	92.258	12.3	-
Relative vapor density	: pNTAP-A Expression Vector		Not available.				
	pNTAP-B Expression Vector		Not available.				
	pNTAP-C Expression Vector		Not available.				
	pCMV-Tag2-Mef2c Expression		Not available.				
	Control Vector						
	pNTAP-Mef2a Expression Control Vector		Not available.				
Relative density	: pNTAP-A Expression Vector		Not available.				
	pNTAP-B Expression Vector		Not available.				
	pNTAP-C Expression Vector		Not available.				
	pCMV-Tag2-Mef2c Expression		Not available.				
	Control Vector						
	pNTAP-Mef2a Expression Control Vector		Not available.				
Solubility(ies)	: Media		Result				
	pNTAP-A Expression Vector						
	water		Soluble				
	pNTAP-B Expression Vector						
	water		Soluble				
	pNTAP-C Expression Vector						
	water		Soluble				
	pCMV-Tag2-Mef2c Expression Control Vector						
	water		Soluble				
	pNTAP-Mef2a Expression Control Vector						
	water		Soluble				
Partition coefficient: n-octanol/water	: pNTAP-A Expression Vector		Not applicable.				
	pNTAP-B Expression Vector		Not applicable.				
	pNTAP-C Expression Vector		Not applicable.				
	pCMV-Tag2-Mef2c Expression		Not applicable.				
	Control Vector						
	pNTAP-Mef2a Expression Control Vector		Not applicable.				
Auto-ignition temperature	: Not available.						
Decomposition temperature	: pNTAP-A Expression Vector		Not available.				
	pNTAP-B Expression Vector		Not available.				
	pNTAP-C Expression Vector		Not available.				
	pCMV-Tag2-Mef2c Expression		Not available.				
	Control Vector						
	pNTAP-Mef2a Expression Control Vector		Not available.				

Section 9. Physical and chemical properties and safety characteristics

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

Particle characteristics

Median particle size	: pNTAP-A Expression Vector	Not applicable.
	pNTAP-B Expression Vector	Not applicable.
	pNTAP-C Expression Vector	Not applicable.
	pCMV-Tag2-Mef2c Expression Control Vector	Not applicable.
	pNTAP-Mef2a Expression Control Vector	Not applicable.

Section 10. Stability and reactivity

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

10.2 Chemical stability	: pNTAP-A Expression Vector	The product is stable.
	pNTAP-B Expression Vector	The product is stable.
	pNTAP-C Expression Vector	The product is stable.
	pCMV-Tag2-Mef2c Expression Control Vector	The product is stable.
	pNTAP-Mef2a Expression Control Vector	The product is stable.

10.3 Possibility of hazardous reactions	: pNTAP-A Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pNTAP-B Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pNTAP-C Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV-Tag2-Mef2c Expression Control Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pNTAP-Mef2a Expression Control Vector	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid	: pNTAP-A Expression Vector	No specific data.
	pNTAP-B Expression Vector	No specific data.
	pNTAP-C Expression Vector	No specific data.
	pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
	pNTAP-Mef2a Expression Control Vector	No specific data.

Section 10. Stability and reactivity

10.5 Incompatible materials	: pNTAP-A Expression Vector	May react or be incompatible with oxidizing materials.
	pNTAP-B Expression Vector	May react or be incompatible with oxidizing materials.
	pNTAP-C Expression Vector	May react or be incompatible with oxidizing materials.
	pCMV-Tag2-Mef2c Expression Control Vector	May react or be incompatible with oxidizing materials.
	pNTAP-Mef2a Expression Control Vector	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: pNTAP-A Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pNTAP-B Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pNTAP-C Expression 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.
	pNTAP-Mef2a Expression Control Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

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.

Section 11. Toxicological information

Information on the likely routes of exposure

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

Potential acute health effects

Eye contact

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

Inhalation

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

Skin contact

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

Ingestion

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

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: pNTAP-A Expression Vector	No specific data.
pNTAP-B Expression Vector	No specific data.
pNTAP-C Expression Vector	No specific data.
pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
pNTAP-Mef2a Expression Control Vector	No specific data.

Inhalation

: pNTAP-A Expression Vector	No specific data.
pNTAP-B Expression Vector	No specific data.
pNTAP-C Expression Vector	No specific data.
pCMV-Tag2-Mef2c Expression Control Vector	No specific data.
pNTAP-Mef2a Expression Control Vector	No specific data.

Section 11. Toxicological information

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

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
Carcinogenicity	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
Mutagenicity	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.
Reproductive toxicity	: pNTAP-A Expression Vector	No known significant effects or critical hazards.
	pNTAP-B Expression Vector	No known significant effects or critical hazards.
	pNTAP-C Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag2-Mef2c Expression Control Vector	No known significant effects or critical hazards.
	pNTAP-Mef2a Expression Control Vector	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

N/A

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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


Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

 **Clean Water Act (CWA) 311**: EDTA

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

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

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)


Section 15. Regulatory information

Not listed.

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

Not listed.

[Inventory list](#)

Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : All components are listed or exempted.
New Zealand	:  All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

Section 16. Other information

[Procedure used to derive the classification](#)

Classification	Justification
Not classified.	

[History](#)

Date of issue/Date of revision	: 06/21/2024
Date of previous issue	: 06/25/2021
Version	: 7
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations

 Indicates information that has changed from previously issued version.

[Notice to reader](#)

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