

SAFETY DATA SHEET



pFB-Neo Retroviral Vector, Part Number 217561

Section 1. Identification

1.1 Product identifier

Product name : pFB-Neo Retroviral Vector, Part Number 217561
Part no. (chemical kit) : 217561
Part no. : pFB-Neo Retroviral Vector 217561-51
 pFB-Luciferase Expression Control Vector 217561-53
Validation date : 9/30/2021

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

Material uses : Analytical reagent.
 pFB-Neo Retroviral Vector 0.01 ml (10 µg 1 µg/µl)
 pFB-Luciferase Expression Control Vector 0.01 ml (10 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 | : pFB-Neo Retroviral 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. |
| | pFB-Luciferase 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 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 | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No signal word. No signal word. |
| Hazard statements | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No known significant effects or critical hazards. No known significant effects or critical hazards. |

Precautionary statements

Section 2. Hazards identification

| | | |
|------------------------------------|--|------------------------------------|
| Prevention | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | Not applicable. Not applicable. |
| Response | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | Not applicable. Not applicable. |
| Storage | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | Not applicable. Not applicable. |
| Disposal | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | Not applicable. Not applicable. |
| Supplemental label elements | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | None known. None known. |

2.3 Other hazards

| | | |
|---|--|----------------------------|
| Hazards not otherwise classified | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | None known. None known. |
|---|--|----------------------------|

Section 3. Composition/information on ingredients

| | | |
|--------------------------|--|--------------------|
| Substance/mixture | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | Mixture 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.

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

| | | |
|---------------------|---|---|
| Eye contact | : pFB-Neo Retroviral 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. |
| | pFB-Luciferase Expression Control Vector | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Inhalation | : pFB-Neo Retroviral Vector | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | pFB-Luciferase 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 | : pFB-Neo Retroviral Vector | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | pFB-Luciferase Expression Control Vector | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |

Section 4. First aid measures

| | | |
|------------------|--|--|
| Ingestion | : pFB-Neo Retroviral 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. |
| | pFB-Luciferase 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. |

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

| | | |
|---------------------|---|--|
| Eye contact | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Inhalation | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Skin contact | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Ingestion | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No known significant effects or critical hazards. No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| | | |
|---------------------|---|--|
| Eye contact | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No specific data. No specific data. |
| Inhalation | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No specific data. No specific data. |
| Skin contact | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No specific data. No specific data. |
| Ingestion | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No specific data. No specific data. |

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

| | | |
|-----------------------------------|---|---|
| Notes to physician | : pFB-Neo Retroviral Vector | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | pFB-Luciferase Expression Control Vector | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No specific treatment. No specific treatment. |
| Protection of first-aiders | : pFB-Neo Retroviral Vector | No action shall be taken involving any personal risk or without suitable training. |
| | pFB-Luciferase Expression Control Vector | No action shall be taken involving any personal risk or without suitable training. |

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

| | | |
|---------------------------------------|---|--|
| Suitable extinguishing media | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | None known. None known. |

5.2 Special hazards arising from the substance or mixture

| | | |
|---|---|--|
| Specific hazards arising from the chemical | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | 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. |
| Hazardous thermal decomposition products | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No specific data. No specific data. |

5.3 Advice for firefighters

| | | |
|---|---|--|
| Special protective actions for fire-fighters | : pFB-Neo Retroviral Vector pFB-Luciferase 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. 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 | : pFB-Neo Retroviral Vector pFB-Luciferase 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. 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 | : pFB-Neo Retroviral Vector pFB-Luciferase 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. 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. |
|------------------------------------|---|--|

Section 6. Accidental release measures

| | | |
|--------------------------------------|--|--|
| For emergency responders | : pFB-Neo Retroviral 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". 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". |
| | pFB-Luciferase Expression Control Vector | |
| 6.2 Environmental precautions | : pFB-Neo Retroviral 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). 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). |
| | pFB-Luciferase Expression Control Vector | |

6.3 Methods and materials for containment and cleaning up

| | | |
|--------------------------------|--|--|
| Methods for cleaning up | : pFB-Neo Retroviral 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. 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. |
| | pFB-Luciferase Expression Control Vector | |

Section 7. Handling and storage

7.1 Precautions for safe handling

| | | |
|---|--|--|
| Protective measures | : pFB-Neo Retroviral Vector | Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). |
| | pFB-Luciferase Expression Control Vector | |
| Advice on general occupational hygiene | : pFB-Neo Retroviral Vector | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| | pFB-Luciferase Expression Control Vector | |

Section 7. Handling and storage

| | | |
|---|--|---|
| 7.2 Conditions for safe storage, including any incompatibilities | <p>: pFB-Neo Retroviral Vector</p> <p>pFB-Luciferase Expression Control Vector</p> | <p>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.</p> <p>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.</p> |
|---|--|---|

7.3 Specific end use(s)

| | | |
|---|--|---|
| Recommendations | <p>: pFB-Neo Retroviral Vector</p> <p>pFB-Luciferase Expression Control Vector</p> | <p>Industrial applications, Professional applications.</p> <p>Industrial applications, Professional applications.</p> |
| Industrial sector specific solutions | <p>: pFB-Neo Retroviral Vector</p> <p>pFB-Luciferase Expression Control Vector</p> | <p>Not available.</p> <p>Not available.</p> |

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|-----------------|-----------------|
| None. | |

8.2 Exposure controls

| | |
|---|---|
| Appropriate engineering controls | <p>: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.</p> |
| Environmental exposure controls | <p>: 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.</p> |

Individual protection measures

| | |
|-------------------------|--|
| Hygiene measures | <p>: 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.</p> |
|-------------------------|--|

Section 8. Exposure controls/personal protection

- 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

- Physical state** : pFB-Neo Retroviral Vector Liquid.
pFB-Luciferase Expression Control Vector Liquid.
- Color** : pFB-Neo Retroviral Vector Not available.
pFB-Luciferase Expression Control Vector Not available.
- Odor** : pFB-Neo Retroviral Vector Not available.
pFB-Luciferase Expression Control Vector Not available.
- Odor threshold** : pFB-Neo Retroviral Vector Not available.
pFB-Luciferase Expression Control Vector Not available.
- pH** : pFB-Neo Retroviral Vector 7.5
pFB-Luciferase Expression Control Vector 7.5
- Melting point/freezing point** : pFB-Neo Retroviral Vector 0°C (32°F)
pFB-Luciferase Expression Control Vector 0°C (32°F)
- Boiling point, initial boiling point, and boiling range** : pFB-Neo Retroviral Vector 100°C (212°F)
pFB-Luciferase Expression Control Vector 100°C (212°F)

Flash point

| Ingredient name | Closed cup | | | Open cup | | |
|--|------------|------|-----------|----------|----|--------|
| | °C | °F | Method | °C | °F | Method |
| pFB-Neo Retroviral Vector | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| pFB-Luciferase Expression Control Vector | | | | | | |

Section 9. Physical and chemical properties and safety characteristics

| | Edetic acid | >100 | >212 | DIN 51758 | | | | |
|---|-------------|--|-------------------------------|--|-------------------------------|--------------|------------|---------------|
| Evaporation rate | : | pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | | Not available. Not available. | | | | |
| Flammability | : | pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | | Not applicable. Not applicable. | | | | |
| Lower and upper explosion limit/flammability limit | : | pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | | Not available. Not available. | | | | |
| Vapor pressure | : | | | | | | | |
| | | | Vapor Pressure at 20°C | | Vapor pressure at 50°C | | | |
| | | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | | pFB-Neo Retroviral Vector | | | | | | |
| | | Water | 23.8 | 3.2 | | | | |
| | | 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | 0 | 0 | | 0.000007501 | 0.000001 | |
| | | pFB-Luciferase Expression Control Vector | | | | | | |
| | | Water | 23.8 | 3.2 | | | | |
| | | 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | 0 | 0 | | 0.000007501 | 0.000001 | |
| Relative vapor density | : | pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | | Not available. Not available. | | | | |
| Relative density | : | pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | | Not available. Not available. | | | | |
| Solubility | : | pFB-Neo Retroviral Vector | | Easily soluble in the following materials: cold water and hot water. | | | | |
| | | pFB-Luciferase Expression Control Vector | | Easily soluble in the following materials: cold water and hot water. | | | | |
| Partition coefficient: n-octanol/water | : | pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | | Not applicable. Not applicable. | | | | |
| Auto-ignition temperature | : | | | | | | | |
| | | Ingredient name | °C | °F | Method | | | |
| | | pFB-Neo Retroviral Vector | | | | | | |
| | | Edetic acid | >400 | >752 | VDI 2263 | | | |
| | | pFB-Luciferase Expression Control Vector | | | | | | |
| | | Edetic acid | >400 | >752 | VDI 2263 | | | |
| Decomposition temperature | : | pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | | Not available. Not available. | | | | |
| Viscosity | : | pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | | Not available. Not available. | | | | |

Section 9. Physical and chemical properties and safety characteristics

Particle characteristics

| | | |
|-----------------------------|--|------------------------------------|
| Median particle size | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | Not applicable. Not applicable. |
|-----------------------------|--|------------------------------------|

Section 10. Stability and reactivity

| | | |
|--|--|--|
| 10.1 Reactivity | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | The product is stable. The product is stable. |
| 10.3 Possibility of hazardous reactions | : pFB-Neo Retroviral Vector pFB-Luciferase 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. |
| 10.4 Conditions to avoid | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No specific data. No specific data. |
| 10.5 Incompatible materials | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. |
| 10.6 Hazardous decomposition products | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

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

Section 11. Toxicological information

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 : pFB-Neo Retroviral Vector Not available.
pFB-Luciferase Expression Not available.
Control Vector

Potential acute health effects

Eye contact : pFB-Neo Retroviral Vector No known significant effects or critical hazards.
pFB-Luciferase Expression No known significant effects or critical hazards.
Control Vector

Inhalation : pFB-Neo Retroviral Vector No known significant effects or critical hazards.
pFB-Luciferase Expression No known significant effects or critical hazards.
Control Vector

Skin contact : pFB-Neo Retroviral Vector No known significant effects or critical hazards.
pFB-Luciferase Expression No known significant effects or critical hazards.
Control Vector

Ingestion : pFB-Neo Retroviral Vector No known significant effects or critical hazards.
pFB-Luciferase Expression No known significant effects or critical hazards.
Control Vector

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : pFB-Neo Retroviral Vector No specific data.
pFB-Luciferase Expression No specific data.
Control Vector

Inhalation : pFB-Neo Retroviral Vector No specific data.
pFB-Luciferase Expression No specific data.
Control Vector

Skin contact : pFB-Neo Retroviral Vector No specific data.
pFB-Luciferase Expression No specific data.
Control Vector

Ingestion : pFB-Neo Retroviral Vector No specific data.
pFB-Luciferase Expression No specific data.
Control Vector

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

Section 11. Toxicological information

| | | |
|------------------------------|--|--|
| General | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Carcinogenicity | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Mutagenicity | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Reproductive toxicity | : pFB-Neo Retroviral Vector pFB-Luciferase Expression Control Vector | 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

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.

Section 13. Disposal considerations

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.

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: Edetic acid

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 : pFB-Neo Retroviral Vector Not applicable.
pFB-Luciferase Expression Control Vector Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

Section 15. Regulatory information

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)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

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

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : All components are listed or exempted.

Section 16. Other information

Procedure used to derive the classification

| Classification | Justification |
|-----------------|---------------|
| Not classified. | |

History

Date of issue : 09/30/2021

Date of previous issue : 04/16/2019

Version : 6

Section 16. Other information

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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