

**Material Safety Data Sheet**  
**Version No.: 2.0(Revision Date : 2023-03-17)****pBIVT Vector Set-1****1. PRODUCT AND COMPANY IDENTIFICATION**

A. Product name : pBIVT Vector Set-1

B. Recommended use : Research use only

C. Supplier : Bioneer corporation

 Address : 8-11, Munpyeongseoro, Daedeok-gu, Daejeon 306-220 Republic of Korea Telephone : +82-42-930-8777**2. HAZARDS IDENTIFICATION**

A. Emergency Overview

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.

B. GHS Label elements, including precautionary statements

 Pictogram none Signal word none Hazard statement(s) none Precautionary statements none**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name | CAS No.       | (%) |
|---------------|---------------|-----|
| DNA           | 9007-49-2     | 99% |
| S1~S2         | Trade secrets | 1%  |

**4. FIRST AID MEASURES**

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- A. Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at few minutes.
- B. Skin Contact : If skin problems occur, discontinue use. If skin irritation persists, call a physician.  
May cause an allergic skin reaction.
- C. Inhalation : Immediately call a doctor/physician.
- D. Ingestion : Rinse around the mouth with water.  
  
Get medical attention if irritating or symptoms occur.
- E. Most important symptoms/effects, acute and delayed: Not information available.
- F. Notes to Physician: Not information available.
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## 5. FIRE-FIGHTING MEASURES

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- A. Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam
- B. Special hazard : No information available
- C. Special protective equipment for fire-fighters : No special advice
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## 6. ACCIDENTAL RELEASE MEASURES

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- A. Personal precautions : Use proper personal protective equipment as indicated in Section 8.
- B. Environmental precautions : Do not allow entering sewers, surfaces or ground water.
- C. Methods for cleaning up : Sweep up or absorb material, then place it into container for disposal. Wash spill site after material pickup is complete
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## 7. HANDLING AND STORAGE

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- A. Handling : No special measures necessary. Good laboratory technique should be used when handling
- B. Storage : Store at -20 °C
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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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- A. Chemical exposure limits, biological limits etc. : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- B. Engineering measures : Not applicable.
- C. Personal protective equipment
- Eye/Face protection : Goggles recommended during refilling
  - Hand protection : Impervious gloves.
  - Skin and body protection : Wear protection clothes.
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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Physical state : Fluid/colorless

pH : No information available

Melting/freezing point : No information available

Boiling point/boiling range : No information available

Flash point : No information available

Evaporation rate : No information available

Flammability (solid, gas) : No information available

Flammability Limits in Air (Upper/Lower) : No information available

Vapor pressure : No information available

Vapor Density : No information available

Relative Density : No information available

Water solubility : No information available

Solubility in other solvents : No information available

Partition coefficient : n-octanol/water : No information available

Autoignition temperature : No information available .

Decomposition temperature : No information available

Viscosity of product : No information available

Molecular weight : No information available

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**10. STABILITY AND REACTIVITY**

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- A. Stability : Stable under normal handling and storage conditions.
- B. Possibility of harmful response : No information available.
- C. Conditions to avoid (electric discharge, impact vibration etc.) : No information available.
- D. Hazardous decomposition products : No dangerous decomposition products known.
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**11. TOXICOLOGICAL INFORMATION**

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- A. Inhalation : No Irritant effect
- B. Skin Contact : No Irritant effect
- C. Ingestion : No Irritant effect
- D. Eye Contact : Irritating to eyes.
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**12. ECOLOGICAL INFORMATION**

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- A. Acute Toxicity : No information available
- B. Persistence and degradability : No information available.
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- C. Bio-accumulative potential : No information available.
  - D. Mobility : No information available
  - E. Other adverse effects : No information available
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### 13. DISPOSAL CONSIDERATIONS

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- A. Waste from residues / unused products : Dispose of in accordance with local regulations.
  - B. Contaminated packaging : Dispose of in accordance with local regulations.
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### 14. TRANSPORT INFORMATION

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- A. Not regulated in the meaning of transport regulations.
    - IMDG : Non-hazardous for sea freight.
    - ADR : Non-hazardous for road transport.
    - RID : Non-hazardous for rail transport.
    - ICAO/IATA : Non-hazardous for air transport
  - B. UN No : Not applicable
  - C. UN Proper shipping name : Not applicable
  - D. Hazard Class : Not applicable
  - E. Packing group : Not applicable
  - F. Marine pollutant : Not applicable
  - G. The special vehicle safety measures: Not applicable
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### 15. REGULATORY INFORMATION

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- A. Occupational health and safety act : No information available
  - B. TCCA regulations : No information available
  - C. Dangerous goods safety management act : No information available
  - D. Waste management regulation : No information available
  - E. International regulations : No information available
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### 16. OTHER INFORMATION

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- A. Issuing date : 26-April-2013
- B. Revision date : 17-March-2023
- C. Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BIONEER corporation shall not be held liable for any damage resulting from handling or from contact with the above product.

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