

**Material Safety Data Sheet**

Version No.: 5.0(Rev. date : 2025-03-20)

# Enzyme Dilution Buffer for Pfu DNA polymerase

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## 1. Product and company identification

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**Product Name** : Enzyme Dilution Buffer for Pfu DNA polymerase

**Product Number** : N/A(buffer)

**Product Use** : For research use only and are not intended for human or animal diagnostics, therapeutic, or other clinical uses, unless otherwise stated.

### Company

Bioneer Corporation

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## 2. Hazards identification

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**GHS** – Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

**Pictogram** : None

**Signal Word** : None

**Hazard statements**: None

**Precautionary statements**: None

### 3. Composition/information on ingredients

CAS No.	Component name	weight(%)
1185-53-1	TRIS HCl	0.1 ~ 0.3
7447-40-7	Potassium Chloride	0.1 ~ 0.2
56-81-5	Glycerol	40~70
60-00-4	Ethylenediaminetetraacetic acid	≥ 0.1
3483-12-3	DL-Dithiothreitol	≥ 0.1

**Note** : The CAS number listed above is for Tris. HCl (< 1%) was added to the Tris to alter the pH level.

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic.

### 4. First aid measures

#### Eye contact

- Flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids.

#### Skin contact

- Wash off immediately with plenty of water.

#### Inhaled

- Move to fresh air

#### Swallowed

- If the person is conscious, wash out mouth with water. Call a physician.

### 5. Fire-fighting measures

#### Suitable extinguishing media

- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

- Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

#### Advice for firefighters

- Wear self contained breathing apparatus for fire fighting if necessary.

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## 6. Accidental release measures

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### Personal precautions, protective equipment and emergency procedures

- Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

### Environmental precautions

- Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

- Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
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## 7. Handling and storage

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### Precautions for safe handling

- No special measures required.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Normal measures for preventive fire protection.

### Conditions for safe storage, including any incompatibilities

- Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
  - Recommended storage temperature: –20 °C
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## 8. Exposure controls / personal protection

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### Appropriate engineering controls

- Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Respiratory protection

- Respiratory protection not required.

#### Eye/face protection

- Goggles recommended during refilling.

#### Skin protection

- Handle with gloves.

#### Body Protection

- impervious clothing
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## 9. Physical and chemical properties

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**Appearance** : form – liquid

colour – colorless

**Odour** : odourless

**Odour Threshold** : no data available

**pH** : 8.2

**Melting point/freezing point** : no data available

**Initial boiling point and boiling range** : no data available

**Flash point** : no data available

**Evaporation rate** : no data available

**Flammability (solid, gas)** : no data available

**Upper/lower flammability or explosive limits** : no data available

**Vapour pressure** : no data available

**Vapour density** : no data available

**Relative density** : no data available

**Partition coefficient**: n-octanol/water : no data available

**Auto-ignition temperature** : no data available

**Decomposition temperature** : no data available

**Viscosity** : no data available

**Explosive properties** : no data available

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## 10. Stability and Reactivity

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**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : no data available

**Conditions to avoid** : no data available

**Incompatible materials** : no data available

**Hazardous decomposition products** : no data available

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## 11. Toxicological information

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**Acute toxicity** : no data available

**Skin corrosion/irritation** : no data available

**Serious eye damage/eye irritation** : no data available

**Respiratory sensitization** : no data available

**Skin sensitization** : no data available

**Carcinogenicity** : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

**Germ cell mutagenicity** : no data available

**Specific target organ toxicity – single exposure** : no data available

**Specific target organ toxicity – repeated exposure** : no data available

**Aspiration hazard** : no data available

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## 12. Ecological information

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**Toxicity** : no data available

**Persistence and degradability** : no data available

**Bioaccumulative potential** : no data available

**Mobility in soil** : no data available

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## 13. Disposal considerations

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**Waste treatment methods** : Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging** : Dispose of as unused product.

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## 14. Transport information

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**UN number** : no data available

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**Transport hazard class** : no data available

**Packaging group** : no data available

**Environmental hazards** : no data available

**Special precautions for user** : no data available

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15. Regulatory information

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

no data available

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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16. Other information

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Bioneer Corporation makes no warranty or representation to its completeness, accuracy or currency. This material is intended for use by persons with pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subject to federal, state or local laws or regulations.

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