

**Material Safety Data Sheet**  
**Version No.: 2.0(24-04-2024)****100 bp DNA Ladder(-dye)****1. Product and company identification****Product Name** : 100 bp DNA Ladder(-dye)**Product Number** : D-1032**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

71, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea

+82-42-930-8777

**2. Hazards identification****GHS** – Classification**Pictogram** : none**Signal Word** : none**Hazard statements**

- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.

**Precautionary statements**

- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- IF IN EYES : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**3. Composition/information on ingredients**

Chemical name	CAS No.	weight(%) (%)
Tris	77-86-1	<1
EDTA	60-00-4	<1
Deionised Water	7732-18-5	>98

---

#### 4. First aid measures

---

**Eye contact**

- Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact**

- Wash off with soap and plenty of water. Consult a physician.

**Inhaled**

- If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Swallowed**

- Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Indication of any immediate medical attention and special treatment needed

- no data available
- 

#### 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 (NO<sub>x</sub>), Sulphur oxides, Sodium oxides

**Advice for firefighters**

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

#### 6. Accidental release measures

---

**Personal precautions, protective equipment and emergency procedures**

- Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

- Do not let product enter drains.

**Methods and materials for containment and cleaning up**

- Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 

#### 7. Handling and storage

---

---

**Precautions for safe handling**

- Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
- 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

---

**8. Exposure controls / personal protection****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**

- Use equipment for eye protection.

**Skin protection**

- Handle with gloves.

**Body Protection**

- impervious clothing

---

**9. Physical and chemical properties****Appearance** : form – liquid

colour – colorless

**Odour** : no data available**Odour Threshold** : no data available**pH** : 8.0**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:** noctanol/water : no data available

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

**Decomposition temperature** : no data available

**Viscosity** : no data available

**Explosive properties** : no data available

---

## 10. Stability and Reactivity

---

**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

---

## 11. Toxicological information

---

**Acute toxicity** : no data available

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

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

**Respiratory sensitisation** : no data available

**skin sensitisation** : 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

---

---

## 12. Ecological information

---

**Toxicity** : no data available

**Persistence and degradability** : no data available

**Bioaccumulative potential** : no data available

**Mobility in soil** : no data available

---

## 13. Disposal considerations

---

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

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

---

## 14. Transport information

---

**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

---

## 15. Regulatory information

---

**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

---

## 16. Other information

---

---

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.

---