

Material Safety Data Sheet
Version No.: 5.0(24-04-2024)**100 bp DNA Ladder****1. Product and company identification****Product Name** : 100 bp DNA Ladder**Product Number** : D-1030**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**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
Ficoll	26873-85-8	<5
Bromphenol Blue	34725-61-6	<1

Xylene Cyanol FF	2650-17-1	<1
Deionised Water	7732-18-5	>91

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
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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, Sodium oxides

Advice for firefighters

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

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