

Material Safety Data Sheet
Version No.: 1.0(Rev. date : 2025-09-03)

T4 DNA Ligase

1. Product and company identification

Product Name : T4 DNA Ligase

Recommended Use : For Research Use Only Supply

Information

Company

Bioneer Corporation

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2. Hazards identification

GHS-Classification

Not a hazardous substance or mixture.

Pictogram

No information available.

3. Composition/information on ingredients

Chemical characterization

CAS No	Component name	Weight (%)
56-81-5	Glycerol	40-80%

4. First aid measures

- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes.
- Skin Contact : Rinse thoroughly with plenty of water for at least 15 minutes.

Remove contaminated clothing.

- Inhalation : Move to fresh air. If breathing is difficult, give oxygen.
- Ingestion : Rinse around the mouth with water.

Get medical attention if irritating or symptoms occur.

- The most important acute and delayed symptoms/effects : Not information available.
- Notes to Physician : Not information available.

5. Fire-fighting measures

- Suitable Extinguishing Media : Water-spray, carbon dioxide, extinguishing powder or foam.
- Flammable Properties : No information available.
- Protective equipment and Precautions for Firefighters : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

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

7. Handling and storage

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- Handling : No special measures necessary. Good laboratory technique should be used when handling.
 - Storage : Store at -20 °C
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8. Exposure controls / personal protection

- Chemical exposure limits, biological exposure limits etc. : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - Engineering Measures : No data available.
 - Personal Protective Equipment
 - Respiratory Protection : Wear respiratory mask.
 - Eye/Face Protection : Safety goggles (glasses)
 - Skin Protection : Wear Chemical Safety gloves.
 - Body Protection : Wear protective clothes.
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9. Physical and chemical properties

- Appearance : liquid
 - Odor : No information available
 - Odor threshold : No information available
 - pH : No information available
 - Melting point/Freezing point : No information available
 - Initial boiling point/range : No information available
 - Flash point : No information available
 - Evaporation rate : No information available
 - Flammability (Solid, Liquid) : No information available
 - Flammability Limits upper/lower : No information available
 - Vapor pressure : No information available
 - Solubility : No information available
 - Vapor density : No information available
 - Viscosity : No information available
 - n-octanol/water : No information available
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- Autoignition temperature : No information available
 - Decomposition temperature : No information available
 - Specific gravity : No information available
 - Molecular weight : No information available
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10. Stability and Reactivity

- Stability : Stable under normal handling and storage conditions.
 - Possibility of harmful response : No information available
 - Conditions to avoid (electric discharge, impact, vibration etc.) : No information available
 - Material to avoid : strong oxidants, fire
 - Hazardous Decomposition Products : No information available
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11. Toxicological information

- Principle routes of exposure
 - Respiratory: No information available.
 - Dermal : No information available.
 - Eye/Skin : No information available.
 - Health effects
 - Acute toxicity : No data available.
 - skin corrosive or irritant : Can be skin irritation.
 - Serious eye damage or irritant : Can be eye irritation.
 - Respiratory irritability : No data available
 - Skin irritability : No data available
 - Carcinogenicity : No data available
 - Germ cell mutagenicity : No data available
 - Reproductive toxicity : 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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- Numerical measures of toxicity(Acute toxicity estimates etc.) : No data available
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12. Ecological information

- Ecotoxicity effects: No data available
 - Residual and degradability : No data available
 - Bioaccumulation : No data available
 - Mobility : No data available
 - Other harmful effects : No data available
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13. Disposal considerations

- Waste disposal method : Burn the material in a chemical incinerator equipped with an after burner and scrubber.
 - Contaminated packaging : Dispose contents and vessel in accordance with regulation by the waste disposal law
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14. Transport information

- 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.
 - UN Number : Not applicable
 - UN Proper Shipping Name : Not applicable
 - Transport hazard class : Not applicable
 - Packing group : Not applicable
 - Marine pollutant : Not applicable
 - The special vehicle Safety measures : Not applicable
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15. Regulatory information

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- Regulation by Industrial safety and health act : Not information available
 - Regulation by chemicals control act : Not information available
 - Regulation by Safety control of dangerous substance act : Not information available
 - Regulation by the waste control act : Not information available
 - Regulation by other domestic and foreign regulatory : Not information available
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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.
