

Material Safety Data Sheet
Version No.: 0 (Rev. date : 2020-12-29)**T4 DNA Ligase**

1. Product and company identification

Product Name : T4 DNA Ligase**Recommended Use** : For Research Use Only Supply**Information** Company : Bioneer Address : 8-11 Munpyeongseo-ro, Daedeok-gu, Daejeon 34302, Republic of KoreaEmergency telephone number : 82-42-930-8777

2. Hazards identification

GHS-Classification

Not a hazardous substance or mixture.

PictogramNo information available.

3. Composition/information on ingredients

Chemical characterization

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

4. First aid measures

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- 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.
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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.
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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.
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7. Handling and storage

- 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

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- 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
 - Autoignition temperature : No information available
 - Decomposition temperature : No information available
 - Specific gravity : No information available
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- 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
 - 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

- 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

- Created : 2020-12-29
- Last updated : 2020-12-29

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