

# Material Safety Data Sheet

Revision Date: 20-July-2022



## Product and Company Information

Product Name	T4 DNA Ligase
Cat. No.	FL101
Company	TransBionovo Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815011
E-mail Address	trans@transgen.com.cn

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## The following TransGen products are included:

T4 DNA Ligase

5×T4 DNA Ligase Buffer

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## 1. Product and Company Information

Product Name T4 DNA Ligase  
Cat. No. FL101  
Company TransBionovo Co., Ltd.  
Technical Phone +86-400-898-0321  
Fax +86-10-57815011  
E-mail Address trans@transgen.com.cn

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## 2. Hazards Identification

The product contains no substances which at their given concentration, are considered to be hazardous to health

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## 3. Composition

This kit consist of Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
Glycerol	56-81-5	>50

Other components:

Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

We recommend handling all chemicals with caution.

## 4. First Aid Measures

General advice In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.  
Skin contact Wash off immediately with plenty of water for at least 15 minutes.  
Inhalation Move to fresh air.

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Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Not an expected route of exposure.
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Notes to physician	Treat symptomatically.
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## 5. Fire-Fighting Measures

Suitable extinguishing media	Dry chemical
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Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
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## 6. Accidental Release Measures

Personal precautions	Use personal protective equipment.
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Methods for cleaning up	Soak up with inert absorbent material.
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Environmental precautions	Prevent further leakage or spillage if safe to do so.
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## 7. Handling and Storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.
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Conditions for safe storage	Keep in properly labeled containers.
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## 8. Exposure Controls/Personal Protection

Exposure limits:

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	10 mg/m <sup>3</sup>	none	10 mg/m <sup>3</sup>	none

## 9. Physical and Chemical Properties

General Information

Form: Liquid

Water solubility: soluble

Others: No information available.

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## 10.Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	No information available
Hazardous decomposition	No information available
Products polymerization	Hazardous polymerisation does not occur

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## 11.Toxicological Information

### Acute toxicity - Component Information

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Glycerol	12600 mg/kg (Rat)	10 g/kg (Rabbit)	570 mg/m <sup>3</sup> (Rat)

### Principle Routes of Exposure/ Potential

#### Health effects

Eyes No information available.

Skin No information available.

Inhalation No information available.

Ingestion No information available.

Carcinogenic effects No information available.

Mutagenic effects No information available.

Reproductive toxicity No information available.

Sensitization No information available.

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## 12.Ecological Information

Ecotoxicity effects No information available.

Mobility No information available.

Biodegradation No information available.

Bioaccumulation No information available.

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## 13.Disposal Considerations

Dispose of in accordance with local regulations.

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## 14. Transport Information

IATA

Proper shipping name      Not classified as dangerous in the meaning of transport regulations

Hazard class                none

Subsidiary Class            none

Packing group              none

UN-No                        none

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## 15. Regulatory Information

International Inventories	Complies
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## 16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE

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**End of Safety Data Sheet**

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# Material Safety Data Sheet

Revision Date: 20-July-2022



## 1. Product and Company Information

Product Name 5×T4 DNA Ligase Buffer  
Cat. No. GO101-01  
Company TransBionovo Co., Ltd.  
Technical Phone +86-400-898-0321  
Fax +86-10-57815011  
E-mail Address trans@transgen.com.cn

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## 2. Hazards Identification

Not hazardous

### Potential Health effects

**Eyes** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**Inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.

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## 3. Composition

This kit consist of Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
2,3-Butanediol, 1,4-dimercapto-, (R,R)-(+/-)-	27565-41-9	<0.1

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## 4. First Aid Measures

General advice In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.  
Skin contact Wash off immediately with plenty of water for at least 15 minutes.

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Inhalation	Move to fresh air.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Not an expected route of exposure.
Notes to physician	Treat symptomatically.

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## 5. Fire-Fighting Measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

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## 6. Accidental Release Measures

Personal precautions	Use personal protective equipment.
Methods for cleaning up	Soak up with inert absorbent material.
Environmental precautions	Prevent further leakage or spillage if safe to do so.

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## 7. Handling and Storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage	Keep in properly labeled containers.

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## 8. Exposure Controls/Personal Protection

Exposure limits:

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
2,3-Butanediol, 1,4-dimercapto-, (R,R)-(+/-)-	none	none	none	none

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## 9. Physical and Chemical Properties

General Information

Form: Liquid

Water solubility: soluble

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Others: No information available.

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## 10.Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	No information available
Hazardous decomposition	No information available
Products polymerization	Hazardous polymerisation does not occur

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## 11.Toxicological Information

### Acute toxicity - Component Information

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
2,3-Butanediol, 1,4-dimercapto-,(R,R)-(+/-)-	No date available	No date available	No date available

### Principle Routes of Exposure/ Potential

#### Health effects

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	No information available.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Sensitization	No information available.

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## 12.Ecological Information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

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## 13.Disposal Considerations

Dispose of in accordance with local regulations.

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## 14. Transport Information

IATA

Proper shipping name      Not classified as dangerous in the meaning of transport regulations

Hazard class                none

Subsidiary Class            none

Packing group              none

UN-No                        none

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## 16. Other Information

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**End of Safety Data Sheet**