





# **Safety Data Sheet**

Revision date 25-Dec-2023

Version 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## Identification of the substance or mixture

Product code EG15205

Product name T4 DNA Ligase (Fast)

# Company/undertaking identification

Jiangsu Yugong Biotech Co., Ltd.

Building E, International Pharmaceutical Innovation Industrial Park,

28 Yuehu Road, Lianyungang Area,

China (Jiangsu) Pilot Free Trade Zone.

Tel: +86-518-85586628

For Research Use Only. Not for use in diagnostic procedures.

## **SECTION 2: Hazards identification**

# **GHS Classification**

Signal Word NONE

Hazard pictograms NONE

Health hazards Not Hazardous

Physical hazards Not Hazardous

Environmental hazards Not Hazardous

Hazard Statements Not Applicable

**Precautionary Statements** 

Prevention Not Applicable

Response Not Applicable

Storage Not Applicable

**Disposal** Not Applicable







#### Other hazards

Not Applicable

#### **HMIS**

Health	0
Flammability	0
Reactivity	0

# **SECTION 3: Composition/information on ingredients**

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

#### **SECTION 4: First aid measures**

# **Description of first aid measures**

**Inhalation** Not expected to be an inhalation hazard under anticipated

conditions of normal use of this material. Consult a physician if

necessary.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact

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

Skin contact Rinse skin with water. Immediate medical attention is not

required.

**Ingestion** Not expected to present a significant ingestion hazard under

anticipated conditions of normal use. If you feel unwell, seek

medical advice.

**Note to physicians** Treat symptomatically.

#### Most important symptoms and effects, both acute and delayed

Not Applicable.

## Indication of any immediate medical attention and special treatment needed

None.

# **SECTION 5: Firefighting measures**

**Extinguishing media** 

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Unsuitable extinguishing media**No information available.





## Special hazards arising from the substance or mixture

Not known

#### Advice for firefighters

Standard procedure for chemical fires.

#### **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

## **Environmental precautions**

No special environmental precautions required.

#### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### Reference to other sections

See section 8 for more information.

## **SECTION 7: Handling and storage**

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

## **Storage Conditions**

Store at -25°C to -15°C.

# Specific end use(s)

For research use only.

# **SECTION 8: Exposure controls/personal protection**

**Control parameters** 

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering measures** Ensure adequate ventilation, especially in confined areas

## **Exposure controls**

## **Personal Protective Equipment**

Respiratory protection In case of insufficient ventilation wear respirators and





components tested and approved under appropriate

government standards.

Hand protection Wear suitable gloves. Glove material: Compatible

chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles

**Skin and Body Protection**Wear suitable protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety

practice

**Environmental exposure controls**No special environmental precautions required.

## **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

**Physical state** liquid Color No data Odor No data **Molecular Weight** No data Melting point / melting range No data No data Boiling point / boiling range Flammability (solid, gas) No data No data Lower explosion limit **Upper explosion limit** No data Flash point No data **Autoignition Temperature** No data **Decomposition temperature** No data рΗ No data **Evaporation rate** No data **Viscosity** No data Solubility No data Partition coefficient: n-octanol/water No data **Vapor Pressure** No data Specific gravity No data Relative density No data No data Vapor density **Explosive properties** No data No data Oxidizing properties **Particle characteristics** No data

#### **Other information**

## Information with regard to physical hazard classes

No information available





## Other safety characteristics

No information available

## **SECTION 10: Stability and reactivity**

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid**No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

products

No data available.

#### **SECTION 11: Toxicological information**

## Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg Oral	> 10 g/kg(Rabbit)	> 10 g/kg(Rabbit)

## **Principal Routes of Exposure**

**Acute toxicity** Data are conclusive but insufficient for classification.

**Skin corrosion/irritation** Data are conclusive but insufficient for classification.

**Serious eye damage/irritation** Data are conclusive but insufficient for classification.

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification.

Specific target organ toxicity

(STOT)-single exposure

Data are conclusive but insufficient for classification.

Specific target organ toxicity

(STOT)-repeated exposure

Data are conclusive but insufficient for classification.

**Carcinogenicity** Data are conclusive but insufficient for classification.

**Germ cell mutagenicity** Data are conclusive but insufficient for classification.





**Reproductive toxicity** Data are conclusive but insufficient for classification.

**Aspiration hazard** Data are conclusive but insufficient for classification.

## **SECTION 12: Ecological information**

#### **Toxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil No information available.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available

#### **SECTION 13: Disposal considerations**

## Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulation

UN number or ID number
UN proper shipping name
Transport hazard class(es)
Not Applicable
Not Applicable
Not Applicable
Not Applicable

Environmental hazards Not Applicable

Special precautions for user Not Applicable

## Maritime transport in bulk according to IMO instruments

Not Applicable







## **SECTION 15: Regulatory information**

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## National Regulations - Brazil

Not regulated.

#### **SECTION 16: Other information**

#### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

#### Abbreviations and acronyms

- TWA Time-Weighted Average
- **OELs** Occupational Exposure Limits
- STEL Short Term Exposure Limit
- DSL/NDSL Canadian Domestic Substances List/Non-Domestic Substances List
- **KECL** Korean Existing and Evaluated Chemical Substances
- **ENCS** Japan Existing and New Chemical Substances
- **IECSC** China Inventory of Existing Chemical Substances
- PICCS Philippines Inventory of Chemicals and Chemical Substances
- **AICS** Australian Inventory of Chemical Substances
- NZIoC New Zealand Inventory of Chemicals
- **EINECS/ELINCS** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **TSCA** United States Toxic Substances Control Act Section 8(b) Inventory
- **CEPA** Canadian Environmental Protection Act
- **EPA** Environmental Protection Agency
- OSHA Occupational Safety and Health Administration of the US Department of Labor







IATA - International Air Transport Association

**DOT** - Department of Transportation

**IMDG** - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

"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.

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**End of Safety Data Sheet**