

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 Product name EG20129 T4 gene 32 protein

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, b	both acute and delayed
Not Applicable.	
Indication of any immediate medical attendical attendical attendion of any immediate medical attendion of a	ention and special treatment needed

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical. 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

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m³ 5 mg/m³	None	None	None

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Glycerol	None	None	None



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	Transparent
Odor	No data
Molecular Weight	No data
Melting point / melting range	No data
Boiling point / boiling range	No data
Flammability (solid, gas)	No data
Lower explosion limit	No data
Upper explosion limit	No data
Flash point	No data
Autoignition Temperature	No data
Decomposition temperature	No data
рН	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
Vapor density	No data
Explosive properties	No data
Oxidizing properties	No data
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	Strong acids. Oxidizing agent. Potassium. Isocyanates. Ammonia. Bases.
Hazardous decomposition products	Carbon oxides.

SECTION 11: Toxicological information

Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg(Rabbit)	>2.75 mg/L(Rat)

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

Hazardous to the Aquatic Environment.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Glycerol	No data available	No data available	No data available	No data available	logPow- 1.76

Mobility in soil	No information available.
Persistence and degradability	No information available.
Bioaccumulative potential	Material does not bioaccumulate.

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	Not Applicable			
UN proper shipping name	Not Applicable			
Transport hazard class(es)	Not Applicable			
Packing group	Not Applicable			
Environmental hazards	Not Applicable			
Special precautions for user	Not Applicable			
Maritime transport in bulk according to IMO instruments				

SECTION 15: Regulatory information

US Federal Regulations

Not Applicable

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