





Revision date 17-Jun-2024

Version 1.0

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

#### Identification of the substance or mixture

Product code EG23301

Product name Color Prestained Protein Marker (10~180 kDa)

## **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 classified

Physical hazards Not classified

Environmental hazards Not classified

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.

# 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 Wat

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. Not for use in diagnostic procedures.

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

## **Control parameters**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None	None	None

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







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

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

## **Exposure controls**

**Physical state** 

### **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.

Handle in accordance with good industrial hygiene and safety **Hygiene measures** 

practice

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

liquid

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

# Information on basic physical and chemical properties

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Color	No data
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 densityNo dataExplosive propertiesNo dataOxidizing propertiesNo dataParticle characteristicsNo data

<u>Other information</u> No data available

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 Nan	ne Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg (Rat	t) No data available	>570mg/m³(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**Data are conclusive but insufficient for classification.





### (STOT)-single exposure

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- 1.75

**Mobility in soil**No information available.

Persistence and degradability

No information available.

Bioaccumulative potential No data.

#### 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

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

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Glycerol	56-81-5	Not Listed	Not Listed

### **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**