





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 EG15528

Product name LightNing® BstEII

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

Health hazards Not classified

Physical hazards Not classified

Hazard Statements Not Applicable

Precautionary Statements Not Applicable

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 swalloweed

Specific effects

Carcinogenic effects None







Mutagenic effects None

Reproductive toxicity None

Sensitization None

Target Organ Effects None under normal use conditions

Other hazards

Not Applicable

HMIS

Health	0
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

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

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 Remove to fresh air. If symptoms persist, call a physician. If not

breathing, giveartificial respiration

Eye contact Rinse cautiously with water for several minutes. Remove

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

Skin contact Rinse cautiously with water for several minutes. If symptoms

occur, obtain medicaladvice.

Ingestion Never give anything by mouth to an unconscious person. If

symptoms persist, calla physician. Do not induce vomiting

without 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 (CO₂). Foam. Dry chemical.

Special protective equipment for

firefighters Wear self-contained breathing apparatus and protectivesuit.

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

Prevent further leakage or spillage if safe to do so

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.

Handle in accordance with good industrial hygiene and safety Hygiene measures

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 No data Flash point **Autoignition Temperature** No data **Decomposition temperature** No data pН No data **Evaporation rate** No data No data **Viscosity** 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 avoidNo information available.

Incompatible materials Strong acids and oxidizing agents. Acetic anhydride.

Isocyanates. Ammonia. Bases.

Hazardous decomposition

products

Carbon oxides.

SECTION 11: Toxicological information

Acute Toxicity

Chamical Name	LD50	LD50	LC50
Chemical Name	(oral,rat/mouse)	(dermal,rat/rabbit)	(inhalation,rat/mouse)
Glycerol	= 12600 mg/kg Oral	No data available	>570 mg/m³ (Rat)

Information on toxicological effects

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure

Acute toxicity Data are conclusive but insufficient for classification.

Skin corrosion/irritation May cause skin irritation in susceptible persons.





Serious eye damage/irritation May cause eye irritation with susceptible persons.

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification.

Specific target organ toxicity

(STOT)-single exposure

None under normal use conditions.

Specific target organ toxicity

(STOT)-repeated exposure

None under normal use conditions...

Carcinogenicity None.

Germ cell mutagenicity Data are conclusive but insufficient for classification.

Reproductive toxicity None.

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 see log Pow.

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 nameNo dangerous good in sense of these transport regulations

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

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