





# **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 EG15509
Product name LightNing® AvrII

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 <sup>3</sup> 5 mg/m <sup>3</sup>	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 (CO<sub>2</sub>). 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.

**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 No data Flash point **Autoignition Temperature** No data **Decomposition temperature** No data pН No data **Evaporation rate** No data No data **Viscosity** 

Partition coefficient: n-octanol/water

Solubility

No data

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 and oxidizing agents. Acetic anhydride.

Isocyanates. Ammonia. Bases.

**Hazardous decomposition** 

products

Carbon oxides.

## **SECTION 11: Toxicological information**

## **Acute Toxicity**

Chemical Name	LD50	LD50	LC50
	(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.

Data are conclusive but insufficient for classification. Germ cell mutagenicity

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.

Material does not bioaccumulate. . Bioaccumulative potential

# 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**No 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.

THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet**