





Safety Data Sheet

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 EG23109

Product name Pyrophosphatase, Inorganic (Yeast)

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.

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 Unsuitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

No information available.





Special hazards arising from the substance or mixture

No information available.

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 ³ 5 mg/m ³	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 ProtectionWear suitable protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety

practice

Environmental exposure controlsNo 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 No data **Decomposition temperature** Hq No data No data **Evaporation rate 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 avoidNone under normal processing.

Incompatible materialsNo 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)	>2.75mg/L(Rat)

Principal Routes of Exposure

Acute toxicity Data are conclusive but insufficient for classification.

Skin corrosion/irritationData 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 toxicityData 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.

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	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