

SAFETY DATA SHEET

SECTION 1. Identification of the substance/mixture and of the company

1. Product identifier

Product No: GMP-BP-AS-05

Product Name: pUTP Solution GMP-grade (100mM)

2. Recommended use of the chemical and restrictions on use

Relevant identified uses: For research use only.

Uses advised against: Not used for diagnostic procedures.

3. Details of the supplier of the safety data sheet

Zhuhai Biori Biotechnology Co.,Ltd

No, 88, Shui an 1st Road,Xiangzhou District, Zhuhai, Guangdong, China.

Hotline: +86-0756-8699969

SECTION 2. Hazard Identification

GHS (Globally Harmonized System) Classification.

1. Classification of the substance or mixture No data available

2. Label elements No data available

3. Other hazards No data available

SECTION 3. Composition/information on ingredients

The product contains no substances considered harmful to health at the given concentration.

Formula: $C_9H_{12}N_2Na_3O_{15}P_3$

Molecular weight: 550.09 g/mol

CAS number: 1175-34-4 (free acid)

No components need to be disclosed according to the applicable regulations.

SECTION 4. First aid measures

1. Description of first-aid measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact: Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water .

2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling and/or in section 11.

3. Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5. Fire-Fighting measures

1.Suitable extinguishing media: Carbon dioxide (CO₂), foam, dry chemical.

2.Unsuitable extinguishing media: No information available.

3.Special hazards arising from the substance or mixture: No information available.

4. Protective equipment and precautions for firefighters: Standard procedure for chemical fires.

SECTION 6. Accidental release measures

1. Personal precautions: Always wear recommended Personal Protective Equipment. Use personal protection equipment.

2. Methods for cleaning up: Absorb with inert absorbent material.

3. Environmental precautions: No special environmental precautions required. See Section 12 for more information.

SECTION 7. Handling and storage

1. Precautions for safe handling

Advice on protection against fire and explosion

Provide suitable exhaust equipment.

Hygiene measures

General industrial hygiene practice.

2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Storage stability

Recommended storage temperature $-20\pm 5^{\circ}\text{C}$

3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8. Exposure controls/personal protection

1. Exposure Limits: We are not aware of any national exposure limit.
2. Engineering measures: Ensure adequate ventilation, especially in confined areas.
3. Personal protective equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment of each laboratory that may use the material.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection: Impervious gloves.

Eye protection: Safety glasses with side-shields. Skin and body protection: Lightweight protective clothing.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

4. Environmental exposure controls: No special environmental precautions are required.

SECTION 9. Physical and chemical properties

Physical and chemical Properties	Information	Physical and chemical Properties	Information
Form	Liquid	Flammability(solid gas)	No Data
Appearance	Colorless	Oxidising properties	No Data
Odour	No Data	Water solubility	No Data
Odour Threshold	Tasteless	Upper explosion limit	No Data
Boiling point / boiling range	No Data	Lower explosion limit	No Data
Melting point / melting range	No Data	Vapour Pressure	No Data
flash point	No Data	vapour density	No Data
Autoignition temperature	No Data	Viscosity	No Data
Evaporation rate	No Data	pH value	No Data
Explosive properties	No Data	Initial boiling point	No Data
Decomposition temperature	No Data	Partition coefficient: n-octanol/water	No Data
Density	No Data	Relative density	No Data
Relative vapor density	No Data	Particle characteristics	No Data

SECTION 10. Stability and reactivity

1. Chemical stability: Stable under normal conditions.
2. Reactivity: None known.
3. Possibility of hazardous reactions: Hazardous reaction has not been reported.
4. Conditions to avoid: No information available.
5. Incompatible materials: Strong acids. Strong oxidants.
6. Hazardous decomposition products: No data available

SECTION 11: Toxicological information

1. Information on toxicological effects

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

2. Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

1. Ecotoxicity: Contains no substances known to be hazardous to the environment or non-degradable in wastewater treatment plants.
2. Mobility: No information available.
3. Biodegradation: No information available.
4. Bioaccumulation: No information available.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name: Not classified as dangerous according to shipping regulations.

Hazard Class: None.

Subsidiary class: None

Packing group: None.

UN-No: None.

SECTION 15: Regulatory information

1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

1. Indication of changes: GHS aligned.
2. Training instructions: Use as instructed.
3. Further information: The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. This SDS has been prepared for use with this product only.
4. Notice to readers: The information and recommendations in this safety data sheet should be regarded as a supplement to existing regulations and relevant information that should be known before. It is the responsibility of

the users to determine the applicability of this information and the suitability of the material or product for any particular purpose. The health and safety of employees while using this product should be taken responsibly by the employer. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

End of Safety Date Sheet