

Synthgene Biotechnology Co., Ltd. Website: www.synthgene-bio.com

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SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Version 4

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

1.1 Product identifier

Product No	UTP001-1,UTP001-10,UTP001-100,UTP001-500
Product name	UTP 100mM Sodium Solution
Pure substance/mixture	Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use	This product is for research and development only
Uses advised against	No information available

1.3 Details of the supplier of the safety data sheet

Supplier Address

Synthgene Biotechnology Co., Ltd. Building B6-2, No. 9, Weidi Road, Xianlin University Town, Xianlin Subdistrict, Qixia District, Nanjing City, China

For further information, please contact

Company Phone Number	+86(025)83696681
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E-mail address	info@synthgene-bio.com

1.4 Emergency telephone number

24 Hour Emergency Phone Number Chemtrec +44 20 3885 0382

China

+86(025)83696681

SESECTION 2: Hazards identification

2.1 Classification of the substance or mixture Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2 Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

2.3 Other hazards

No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1 Description of first aid measures

in Beschption of mst and m	
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physi -cian.
Ingestion	Rinse mouth
4.2 Most important symptom	ms and effects, both acute and delayed
Symptoms	No information available.
Effects of Exposure	No information available.

4.3 Indication of any immediate medical attention and special treatment neededNote to physiciansTreat symptomatically.

	SECTION 5: Firefighting measures	
5.1 Extinguishing media		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
5.2 Special hazards arising from the substance or mixture Specific hazards arising from the No information available. -chemical		
5.3 Advice for firefighters Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	
	SECTION 6: Accidental release measures	
6.1 Personal precautions, prote Personal precautions For emergency responders	ective equipment and emergency procedures Ensure adequate ventilation. Use personal protection recommended in Section 8.	
6.2 Environmental precautions Environmental precautions	See Section 12 for additional Ecological Information.	
6.3 Methods and material for c Methods for containment Methods for cleaning up Prevention of secondary hazards	ontainment and cleaning up Prevent further leakage or spillage if safe to do so. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.	
6.4 Reference to other sections Reference to other sections	See section 8 for more information. See section 13 for more information.	
	SECTION 7: Handling and storage	
7.1 Precautions for safe handlin Advice on safe handling General hygiene considerations	1g Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.	
7.2 Conditions for safe storage, Storage Conditions Storage class (TRGS 510)	, including any incompatibilities Please store in -20°C or below, always avoid freeze-thaw cycles. Storage class 12.	
7.3 Specific end use(s) Risk management methods [RMM	The information required is contained in this Safety Data Sheet.	

SECTION 8: Exposure controls/personal protection		
8.1 Control parameters Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	
Biological occupational exposure limits Derived No Effect Level (DNEL) - Workers	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. No information available	
Derived No Effect Level (DNEL) - General Public	No information available.	
Predicted No Effect Concentration (PNEC)	No information available.	
8.2 Exposure controls Engineering controls	No information available.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	No special protective equipment required.	
Skin and body protection	No special protective equipment required.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice. No information available.	
	SECTION 0. Deviced and showing proportion	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear colorless solution
Color	Clear colorless solution
Odor	Mild.
Odor threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	None known
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
рН	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	No data available	None known

Bulk density	No data available
Liquid Density	No data available
Vapor density	No data available
Particle characteristics	
Particle Size	No information ava
Particle Size Distribution	No information ava

9.2 Other information

9.2.1 Information with regard to physical hazard classes Not applicable

9.2.2 Other safety characteristics

No information available

No data available	
No information ava	

available available None known None known

SECTION 10: Stability and reactivity

10.1 Reactivity Reactivity	No information available.	
10.2 Chemical stability Stability	Stable under normal conditions.	
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	None. None.	
10.3 Possibility of hazardous reactions Possibility of hazardous reactions None under normal processing.		
10.4 Conditions to avoid Conditions to avoid	None known based on information supplied.	
10.5 Incompatible materials Incompatible materials	None known based on information supplied.	
10.6.Hazardous decomposition products Hazardous decomposition products None known based on information supplied.		
SECTION 11: Toxicological information		

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Information on likely routes of exposure		
Product Information		
Inhalation	Specific test data for the substance or mixture is not available.	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	Specific test data for the substance or mixture is not available.	
Ingestion	Specific test data for the substance or mixture is not available.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	No information available.	
Acute toxicity		
Numerical measures of toxicity		
The following values are calculated based on chapter 3.1 of the GHS document		

ATEmix (oral)	99,999.00	mg/kg
ATEmix (dermal)	99,999.00	mg/kg
ATEmix (inhalation-gas)	99,999.00	ppm
ATEmix (inhalation-vapor)	99,999.00	mg/l
ATEmix (inhalation-dust/mist)	99,999.00	mg/l

Delayed and immediate effects as well as chronic effects from short and long-term exposure Skin corrosion/irritation No information available.

Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard No information available.	No information available.
11.2 Information on other hazards 11.2.1.Endocrine disrupting properties Endocrine disrupting properties	No information available.

11.2.2.Other information Other adverse effects

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicity Unknown aquatic toxicity	The environmental impact of this product has not been fully investigated. Contains 0 % of components with unknown hazards to the aquatic environment.
12.2 Persistence and degradability Persistence and degradability	No information available.
12.3 Bioaccumulative potential Bioaccumulation	There is no data for this product.
12.4 Mobility in soil Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment PBT and vPvB assessment	No information available.
12.6 Endocrine disrupting properties Endocrine disrupting properties	No information available.
12.7 Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues/	Dispose of in accordance with local regulations. Dispose of waste in accordance with environ
unused products	mental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 14.2	UN number or ID number Extended Proper Shippin	Not regulated Not regulated
Name	Extended Proper Shippin	Notregulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not regulated
14.6	Special precautions for user	Nege
	Special Provisions	None
IMDG		
14.1	UN number or ID number	Not regulated
14.2	Extended Proper Shipping	Not regulated
Name		
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not regulated
14.6	Special precautions for user Special Provisions	None
		NOTE
14.7	Maritime transport in bulk	No information available
	according to IMO instruments	
RID		
14.1	UN/ID No	Not regulated
14.2	Extended Proper Shipping	Not regulated
Name		
14.3	Transport hazard class(es)	Not regulated
14.4 14.5	Packing group Environmental hazard	Not regulated
14.5	Special precautions for user	Not regulated
14.0	Special Provisions	None
	Special Tovisions	NUTE
ADR		
14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not regulated
14 4	Constal and a state of features	-
14.6	Special precautions for user Special Provisions	None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. **Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AIIC NZIOC	Contact supplier for inventory compliance status Contact supplier for inventory compliance status
Legend: TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC PICCS AICS NZIOC	 United States Toxic Substances Control Act Section 8(b) Inventory Canadian Domestic Substances List/Non-Domestic Substances List European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances Japan Existing and New Chemical Substances China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances Philippines Inventory of Chemicals and Chemical Substances Australian Inventory of Chemical Substances New Zealand Inventory of Chemicals

15.2.Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		
Key literature references and sources for data used to compile the SDS			
Agency for Toxic Substances and Disease Registry (ATSDR)			
U.S. Environmental Protection Agency ChemView Database			
European Food Safety Authority (EFSA)			
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)			

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safetyand Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for EconomicCo-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and DevelopmentScreening Information Data Set World Health Organization Prepared by Environmental, Health and Safety

Revision note SDS is valid 3 years from revision date. Contact info@synthgene-bio.com for latest revision.

Revision date 25-January-2024

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

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End of Safety Data Sheet