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

1.1 Product identifier

Product No	10302B
Product name	10xTranscription Buffer
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 Biotech (Yixing) Co., Ltd.
Building 7, Zone C, Yixing Medicinal Valley, South of Science and Technology Avenue, Gaocheng Town, Yixing City, China

For further information, please contact

Company Phone Number	+86(025)83696681
Telefax	+86(025)83696681
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
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 symptoms 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 needed
Note to physicians Treat 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 -chemical No information available.

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, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders 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 containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards 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 handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions Please store in -20℃ or below, always avoid freeze-thaw cycles.

Storage class (TRGS 510) 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	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL) - Workers	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	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

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
pH	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	None known
Particle characteristics		None known
Particle Size	No information available	
Particle Size Distribution	No information available	

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

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 None.

Sensitivity to static discharge 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.

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 The environmental impact of this product has not been fully investigated.
Unknown aquatic toxicity 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/ unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environ mental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1	**UN number or ID number**	Not regulated
14.2	**Extended Proper Shippin Name**	Not regulated
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

IMDG

14.1	**UN number or ID number**	Not regulated
14.2	**Extended 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
14.6	**Special precautions for user Special Provisions**	None
14.7	**Maritime transport in bulk according to IMO instruments**	No information available

RID

14.1	**UN/ID No**	Not regulated
14.2	**Extended 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
14.6	**Special precautions for user Special Provisions**	None

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
14.6	**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	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:	
TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AICS	- Australian Inventory of Chemical Substances
NZIoC	- 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 Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening 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 01-July-2026

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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide for safe handling, use, processing, storage, transportation, disposal and release and should not be taken as a warranty or quality specification. The information relates only to the specific material and may not be valid for such material used in combination with any other materials or in any process unless expressly specified in the text. New England Biolabs will not be liable for any damages resulting from handling or contact with the product.

End of Safety Data Sheet