
Material Safety Data Sheet

Revision Date: 20-July-2022



1. Product and Company Information

Product Name *TransStart*[®] *FastPfu* DNA Polymerase
Cat. No. AP221
Company TransGen Biotech Co., Ltd.
Technical Phone +86-400-898-0321
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2. Composition

Chemical Name	CAS No.	Concentration or Concentration Range (w/w %)
Glycerol (also called glycerine) 56-81-5 (40-70)	56-81-5	40-70

It is recommended to handle all chemicals with caution.

3. Hazards Identification

Health Hazards

Not Hazardous

Physical Hazards

Not Hazardous

Environmental Hazards

Not Hazardous

Signal Word

None

Hazard Symbol

None

Hazard Statements

Not Applicable

4. First Aid Measures

Eye contact	Rinse carefully with water for minutes. If contact lenses are worn and can be easily removed, remove the contact lenses and continue to rinse.
Skin contact	Wash off with plenty of water. No immediate medical attention is required.
Inhalation	No inhalation hazard under the expected normal conditions of use. Consult a physician if necessary.
Ingestion	No ingestion hazard under the expected normal conditions of use. Consult a physician if feeling uncomfortable.
Notes to physicians	Treat symptomatically.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media	Water spray, Carbon dioxide (CO ₂), Foam, Dry powder
Unsuitable extinguishing media	No information available

Special dangers

Not known

Firefighters' protective equipment and precautions

Standard procedures for dealing with chemical fires

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation and always wear personal protective equipment.
Methods for cleaning up	Use inert absorbent material to soak up spill.
Environmental precautions	Prevent product from entering drains. Avoid contaminating the groundwater system.

7. Handling and Storage

Precautions for safe handling	Use recommended personal protective equipment. No special handling advice is required.
Conditions for safe storage	Keep container sealed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Prevent direct sunlight.
Specific use	For research use only. Not for diagnostic use.

8. Exposure Controls/Personal Protection

Control parameter

MAC(mg/m ³)	No standards available
PC-TWA(mg/m ³)	No standards available
PC-STEEL(mg/m ³)	No standards available
TLV-C(mg/m ³)	No standards available
TLV-TWA(mg/m ³)	No standards available
TLV-STEEL(mg/m ³)	No standards available

Exposure controls

Personal protective equipment

Respiratory protection	In case of insufficient ventilation, use respirators with their components tested and approved under appropriate government standards
Hand Protection	Wear appropriate gloves based on compatibility of glove material resistant to specific chemicals.
Eye Protection	Tightly sealed goggles
Skin and Body Protection	Wear appropriate protective clothing
Hygiene Measures	Operate in accordance with good industrial hygiene and safety practice
Environmental exposure control	Prevent product from entering drains. Avoid contaminating the groundwater system.

9. Physical and Chemical Properties

General Information

Form	Liquid
Solubility in water	Soluble
Others	No data available

10. Stability and Reactivity

Reactivity	Not known
Stability	Stable under normal storage conditions
Hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	No information available.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous polymerization	Hazardous polymerization does not occur.
Decomposition products	No data available

11. Toxicological Information

Information on toxicological effects

Acute Toxicity	No data available
Oral-rat LD50 (mg/kg)	12600
Dermal-rat LD50 (mg/kg)	No data available
Inhalation-rat LC50 (mg/m ³)	>570
Subcutaneous-rat LD50 (mg/kg)	No data available
Intravenous-rat LD50 (mg/kg)	No data available
Peritoneal cavity-rat LD50 (mg/kg)	No data available
Oral-mouse LD50 (mg/kg)	No data available
Dermal- mouse LD50 (mg/kg)	No data available
Intravenous-mouse LD50 (mg/kg)	No data available
Peritoneal cavity-mouse LD50 (mg/kg)	No data available

Main routes of exposure

Acute Toxicity	Data are conclusive but insufficient for classification
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Skin corrosion/ irritation	Data are conclusive but insufficient for classifications eye irritation
Serious eye damage/irritation	Data are conclusive but insufficient for classification
Respiratory or skin allergy	Data are conclusive but insufficient for classification
Specific target organ toxicity(STOT) – single exposure	Data are conclusive but insufficient for classification
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

12. Ecological Information

Carcinogenic effects	No data available
Mobility	No data available
In vivo degradation	No data available
Bioaccumulation	No data available

13. Disposal Considerations

Waste should be avoided or minimized as much as possible. Empty containers or liners may retain some product residues. The substance and its container must be disposed of in accordance with approved disposal techniques. The disposal of the product, its solution or any by-products should refer to relevant national and local regulations. Do not dispose into drains or sewers.

14. Transport Information

Hazard class	No data available
UN number	No data available
Packing group	No data available
Packing method	No data available
Transportation considerations	Package should be intact upon departure. Loading

should be handled carefully. During transportation, prevent the containers from leakage, collapse, fall or damage. Transportation combined with oxidants, edible chemicals, etc. is strictly prohibited. It should be protected from exposure to sun light, rain and high temperature during transportation. The vehicle should be thoroughly cleaned after transportation. Road transportation must follow the prescribed route.

15. Regulatory Information

The following laws, regulations and standards have made corresponding provisions on the safe use, storage, transportation, loading and unloading , classification and marking of chemicals: The Production Safety Law of the People's Republic of China (adopted at the 27th meeting of the Standing Committee of the Ninth People's Congress on June 29, 2002); The Environmental Protection Law of the People's Republic of China (adopted at the 11th meeting of the Standing Committee of the Seventh National People's Congress on December 26, 1989)

16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation. These recommendations are based on prudent professional judgment. This 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, quantities, 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 MSDS does not constitute a warranty of marketability or suitability for any particular purpose, expressed or implied.**

End of Safety Data Sheet