# **Material Safety Data Sheet**

Revision Date: 15-July-2020



# 1. Product and Company Information

Product Name TransStart® FastPfu DNA Polymerase

Cat. No. AP221

Company TransGen Biotech Co., Ltd.

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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.

# 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media Water spray, Carbon dioxide (CO2), 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

# 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 <sup>3</sup> )	No standards available
PC-STEL(mg/m <sup>3</sup> )	No standards available
$TLV-C(mg/m^3)$	No standards available
$TLV$ - $TWA(mg/m^3)$	No standards available
TLV-STEL(mg/m <sup>3</sup> )	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<sup>3</sup>) >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

Data are conclusive but insufficient for Skin corrosion/irritation classifications eye irritation Data are conclusive but insufficient for Serious eye damage/irritation classification Data are conclusive but insufficient for Respiratory or skin allergy classification Specific target organ toxicity(STOT) – Data are conclusive but insufficient for classification single exposure Data are conclusive but insufficient for Specific target organ toxicity classification (STOT) – repeated exposure Carcinogenicity Data are conclusive but insufficient for classification Data are conclusive but insufficient for Germ cell mutagenicity classification Data are conclusive but insufficient for Reproductive toxicity 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

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