

---

# Material Safety Data Sheet

Revision Date: 10-Sep-2013



## 1. Product and Company Information

Product Name: *TransStart*<sup>®</sup> *KD* Plus DNA Polymerase  
Cat. No.: AP301  
Company: TransGen Biotech Co., Ltd.  
Technical Phone: +86-400-898-0321  
Fax: +86-010-57815011  
E-mail Address: trans@transgen.com.cn

---

## 2. Hazards Identification

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

---

## 3. Composition

This kit consist of Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
Glycerol	56-81-5	>50

Other components:

Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

We recommend handling all chemicals with caution.

## 4. First Aid Measures

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes.

Inhalation: Move to fresh air.

---

TransGen Biotech Co., Ltd.

---

Ingestion                      Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Not an expected route of exposure.

Notes to physician      Treat symptomatically.

---

## 5. Fire-Fighting Measures

Suitable extinguishing media      Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical

Special protective equipment for firefighters      Wear self-contained breathing apparatus and protective suit.

---

## 6. Accidental Release Measures

Personal precautions                      Use personal protective equipment.

Methods for cleaning up                      Soak up with inert absorbent material.

Environmental precautions                      Prevent further leakage or spillage if safe to do so.

---

## 7. Handling and Storage

Precautions for safe handling                      Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage                      Keep in properly labeled containers.

---

## 8. Exposure Controls/Personal Protection

Exposure limits:

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable fraction	none	10 mg/m <sup>3</sup>	none

## 9. Physical and Chemical Properties

General Information

Form: Liquid

Water solubility: soluble

Others: No information available.

---

---

TransGen Biotech Co., Ltd.

---

## 10. Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	No information available
Hazardous decomposition	No information available
Products polymerization	Hazardous polymerisation does not occur

---

## 11. Toxicological Information

### Acute toxicity - Component Information

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Glycerol	12600 mg/kg (Rat)	10 g/kg (Rabbit)	570 mg/m <sup>3</sup> (Rat)

### Principle Routes of Exposure/ Potential

#### Health effects

Eyes No information available.

Skin No information available.

Inhalation No information available.

Ingestion No information available.

Carcinogenic effects No information available.

Mutagenic effects No information available.

Reproductive toxicity No information available.

Sensitization No information available.

---

## 12. Ecological Information

Ecotoxicity effects No information available.

Mobility No information available.

Biodegradation No information available.

Bioaccumulation No information available.

---

## 13. Disposal Considerations

Dispose of in accordance with local regulations.

---

---

## 14. Transport Information

IATA

Proper shipping name      Not classified as dangerous in the meaning of transport regulations

Hazard class                none

Subsidiary Class            none

Packing group              none

UN-No                        none

---

## 15. Regulatory Information

International Inventories	Complies
---------------------------	----------

---

## 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 and the recommendations are based on prudent application of professional judgment. The 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, volumes, 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, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE

---

**End of Safety Data Sheet**