



## Material Safety Data Sheet

### 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name	<b>KOD -Plus-</b>
Product Code	KOD-201, (-2B, -2S, 201S)
<b>SUPPLIER</b>	
Name	LifeScience Department TOYOBO Co., Ltd.
Address	2-8 Dojima Hama 2-chome, Kita-Ku OSAKA 530-8230 JAPAN
Emergency Telephone No.	+81-6-6348-3786
Fax No.	+81-6-6348-3833

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product (Substance/Preparation)	Preparation		
Chemical Nature			
Components	KOD DNA polymerase	Glycerol	Anti-KOD antibody
Chemical Name	DNA polymerase	Glycerol	monoclonal antibody
Synonym (generic name)	KOD		
CAS No.	(EC2.7.7.7)	56-81-5	
Concentration	<10%	Appox.50%	

### 3 HAZARDS IDENTIFICATION

Most Important Hazards	May cause eye and skin irritation. May cause respiratory and digestive tract irritation.
Specific Hazards	Not available

### 4 FIRST-AID MEASURES

Inhalation	In case of irritation by inhaling this product, move affected person to fresh air and await recovery. If irritation persists, seek immediate medical attention.
Skin Contact	Wash with clean water, immediately.
Eye Contact	Flush eyes with clean water for more than 15 min, and seek medical attention.
Ingestion	Induce vomiting. If indisposition continues, seek medical attention.

### 5 FIRE-FIGHTING MEASURES

Extinguishing Media	Water, Carbon Dioxide, Foam, Dry Chemical Powder
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### 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid substance contact
Environmental Precautions	Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.
Methods for Cleaning up	The same as the above.



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### 7 HANDLING AND STORAGE

#### HANDLING

Technical Measures	Wear a gas mask, rubber gloves and chemical safety goggles. Set up good ventilation and exhaust system in the work area.
Precautions	Keep away from fire or heat.
Safe Handling Advice	Good laboratory technique should be used when handling this product.

#### STORAGE

Technical Measures	Store in the sampling tube.
Storage Conditions	Store at about -20°C
Incompatible Products	Oxidizers
Packaging Materials	Store in the original package

### 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection	Wear a gas mask. Set up good ventilation and exhaust system in the work area.
Hand Protection	Chemical safety gloves.
Eye Protection	Chemical safety goggles.
Skin and Body Protection	Long sleeves to prevent contact with skin.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Colour	colorless
Odour	none
pH	7.0-8.5
Boiling Point	Not available
Melting Point	Not available
Decomposition Temperature	Not available
Flash Point	Not available
Density	Not available
Solubility	Soluble in water.

### 10 STABILITY AND REACTIVITY

Stability	Stable under normal handling and storage conditions
Possible Hazardous Reactions	None
Conditions to Avoid	Not available
Material to Avoid	Strong acids, strong alkalines and strong oxidizers
Hazardous Decomposition Product	Not available

### 11 TOXICOLOGICAL INFORMATION

Acute Toxicity	Not available (probably very low)
Local Effects	Not available (probably very low)



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### 12 ECOLOGICAL INFORMATION

Mobility	Not available
Persistence/Degradability	Not available
Bioaccumulation	Not available

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### 13 DISPOSAL CONSIDERATIONS

Waste from Residues	Dispose of in accordance with all applicable local and national laws and regulations.
Contaminated Packaging	Dispose in the same way as the material.

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### 14 TRANSPORT INFORMATION

International Regulations	
UN Classification Number	Not classified
	Follow all of the laws and regulations in your respective country.
Specific Precautions	To prevent packages from breaking, handle with care.

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### 15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

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### 16 OTHER INFORMATION

Notice	The information in this MSDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information.
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