



## Material Safety Data Sheet

### 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name **KOD -Plus- Ver.2**  
 Product Code **KOD-211**  
 SUPPLIER  
 Name **Life Science Operations 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 **Preparation**  
 (Substance/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**

### 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

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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