



Safety Data Sheet

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	KOD FX Neo
Product Code	KFX-201
SUPPLIER	
Name	TOYOBO Co., Ltd.
Address	2-2-8 Dojima Hama Kita-ku Osaka, 530-8230 Japan
Department	Biotech support Department
Telephone No.	+81-6-6348-3786
Fax No.	+81-6-6348-3833
Recommended use and restrictions on use	PCR for DNA amplification (Reagent for research)

2 HAZARDS IDENTIFICATION

Most Important Hazards	Few adverse human health effects are anticipated.
Specific Hazards	Not available
GHS Classification	Classification not possible

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product (Substance/Preparation)	Preparation	
Chemical Nature		
Parts Name	Main components	CAS No. (EC NO.)
KOD FX Neo	DNA polymerase	(EC 2.7.7.7)
	monoclonal antibody	-
	Glycerol	56-81-5
2×PCR Buffer for KOD FX Neo	Tris(Hydroxymethyl)aminomethane	77-86-1
	Magnesium sulfate	7487-88-9
2mM dNTPs	Deoxyadenosine triphosphate	1927-31-7
	Deoxycytidine triphosphate	102783-51-7
	Deoxyguanosine triphosphate	93919-41-6
	Deoxythymidine triphosphate	18423-43-3
Components Contributing to the Hazard		
Common Chemical Name (or Generic Name)	Glycerol	Poly(oxyethylene) Nonylphenylether
Synonyms	Glycerin	Nonidet P-40
Contained	KOD FX Neo : 50%	KOD FX Neo : 0.05%
Chemical formula	CH ₂ OHCHOHCH ₂ OH	Not available
CAS No.	56-81-5	9016-45-9
Concentration	50%	0.05%



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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 minutes, 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
Protection of fire-fighters	Fire-fighting should be done from the windward side of fire area. Fire-fighters should wear proper protective equipment in case of large scale fire.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective gear to avoid eye/skin contact and inhalation.
Environmental Precautions	Avoid disposition to the environment.
Methods for Cleaning up	Use cloth, paper or anything similar to soak up the solution leaking out of the container. Take up under vacuum using dust collecting filter.

7 HANDLING AND STORAGE

HANDLING

Technical Measures	Wear protective equipments and avoid contact with eyes and skin. Handle with ventilation and local exhaust system.
Precautions	Avoid substance contact .After handling, wash with clean water.
Safe Handling Advice	Good laboratory technique should be used when handling this product.

STORAGE

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



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8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING MEASURES Set up good ventilation and exhaust system in the work area.

Control Parameter

Limit Values

Glycerol

Poly(oxyethylene)

Nonylphenylether

JSOH OEL

Not established

Not established

ACGIH TLV

10mg/m³

Not established

OSHA PEL

total dust:15mg/m³TWA

respirable fr.: 5mg/m³TWA

Not established

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection

Wear a dust mask.

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

None

Odour

None

pH

7.0-9.0

Flash Point

No flammability due to aqueous solution, but glycerol whose flash point 160°C may stay behind after volatilization KOD FX Neo.

Boiling Point

Not available

Melting Point

Not available

Decomposition Temperature

Not available

Density

1.0-1.2

Solubility

Soluble in water

10 STABILITY AND REACTIVITY

Stability

Stable at -20°C

Possible Hazardous Reactions

None

Conditions to Avoid

Strong heat

Material to Avoid

Direct sunlight, strong oxidizers and strong reducers

Hazardous Decomposition

Not available

Product

11 TOXICOLOGICAL INFORMATION

Acute Toxicity

Not available

Local Effects

May cause eye and skin irritation. May cause respiratory and digestive tract irritation.



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12 ECOLOGICAL INFORMATION

Mobility	Soluble in water and diffusible into water environment.
Persistence/Degradability	Not available
Bioaccumulation	Not available

13 DISPOSAL CONSIDERATIONS

Waste from Residues	Dispose of in accordance with all applicable local and national laws and regulations.
Contaminated Packaging	Dispose of in accordance with all applicable local and national laws and regulations.

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.

15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

16 OTHER INFORMATION

Notice	The information in this SDS, 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. The SDS is subject to revision as new information becomes available.
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