



Material Safety Data Sheet

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name	1kb DNA Ladder
Product Code	DNA-032
SUPPLIER	
Name	Biotech support Department TOYOBO Co., Ltd.
Address	2-2-8 Dojima Hama 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	DNA
Chemical Name	Deoxyribonucleic acid
Synonym (generic name)	
CAS No.	
Concentration	<1%

3 HAZARDS IDENTIFICATION

Most Important Hazards	Few adverse human health effects are anticipated.
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	Few adverse human health effects are anticipated.
Environmental Precautions	Recovered as possible
Methods for Cleaning up	Sweep up and place in a bag. Avoid raising a dust. Waste disposal. Ventilate the area and wash the spill site after pick up is complete.



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7 HANDLING AND STORAGE

HANDLING

Technical Measures Wear a dust mask, latex gloves and safety glasses. 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

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection Wear a dust 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

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

13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORT INFORMATION

International Regulations	
UN Classification Number	Not classified
	Follow all of the laws and regulations in your respective country.
Specific Precautions	Do not drop, overturn, or destroy containers for heavy load. To prevent packages from breaking, keep dry and handle with care.

15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

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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