1kb DNA Ladder First issue : Jul. 21, 2004



# 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 Preparation

(Substance/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

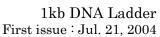
### 6 ACCIDENTAL RELEASE MEASURES

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.