

1Kb Plus DNA Ladder RTU

Identification of the product / Substance and of the company

Product Name: 1Kb Plus DNA Ladder RTU

Catalog Number: DM015-R500(N)~DM015-B500ML

Use of the product: For laboratory use. Suitable for use as molecular weight standards for PAGE electrophoresis.

Company identification: BIO-HELIX Co., LTD.

Site: <http://www.bio-helix.com>

E-mail: info@bio-helix.com

Composition / Information on ingredients

Ingredients :

Water	> 50% (v/v)	EC#231-791-2	CAS#7732-18-5
Glycerol	10-25% (v/v)	EC#200-289-5	CAS#56-81-5

Other components :

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

Additional information: For the wording of the listed risk phrases refer to section 16.

Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EC, and is not labelled with danger symbols or indications of danger.

Hazards deriving from physical-chemical properties :

The data available do not support any physical or chemical hazard. Human health hazards :

Inappropriate handling may cause formation of aerosols. Inhalation of aerosols may cause allergic type reactions in sensitized individuals. Prolonged skin contact may cause minor irritation.

Caution: Avoid inhalation, ingestion, and skin contacts.

Environmental hazards: The data available do not support any environmental hazard.

First Aid Measures

Ingestion: If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event of any complaints.

Inhalation: If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.

Skin contact: Generally, the product does not irritate the skin. If symptoms of irritation after prolonged exposure occur, consult a doctor.



Material Safety Data Sheet

Eye contact: In case of contact, wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

Fire-fighting measures

The product cannot cause fire.

Suitable extinguishing agents : Water spray, Carbon Dioxide, dry chemical powder or appropriate foam.

Not suitable extinguishing agents : None.

Special exposure hazards from decomposition products : Not thoroughly investigated.

Protective equipment: Wear self-contained breathing apparatus and protective clothing.

Accidental release measures

Personal precautions: Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage.

In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

Environmental precautions: No special measures required.

Methods for cleaning up: Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

Additional information: No dangerous substances are released.

Handling and storage

Handling: No further requirements.

Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid. Avoid the formation of aerosols. Ventilate area.

Storage: Store at - 20°C. None other specific requirements relating to the product.

Exposure controls / personal protection

Ingredients with limit values that require monitoring at the workplace :

The product does not contain any relevant quantities of materials with critical values that need to be monitored at the workplace.

General protective and hygienic measures: The usual precautionary measures are the same as for chemicals handling.

Engineering measures: None specific requirements relating to the product.

Personal protection:

- Respiratory protection: No special measures required.
- Hand protection: Wear rubber gloves. None special requirements to rubber.
- Eye protection: No need to wear glasses (goggles) when ordinary operations with the product.



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Safety glasses are recommended during certain operations when aerosol formation is possible.

- Skin protection: The usual precautionary measures accepted in research laboratories, e.g.

Physical and chemical properties

Protective clothes (gowns). None specific requirements.

Appearance: Liquid.

Color: Blue.

Odor: Odorless.

pH-value at 25 °C : 8.0.

Boiling point: 100 °C.

Flash Point: Not applicable.

Flammability/autoflammability: The product is not flammable/self-igniting.

Explosive properties: The product does not possess explosive properties.

Oxidizing properties: Not applicable.

Vapor pressure: Not applicable.

Relative density at 20 °C: ~1 g/cm3.

Solubility in/miscibility with water: Fully miscible.

Fat solubility: Not applicable.

Vapor density: Not applicable.

Evaporation rate : Not applicable.

Conductivity: Not applicable.

Viscosity: Not viscous.

Stability and reactivity

Stability: Stable under storage conditions (see Section 7).

Conditions to avoid: No conditions which may cause dangerous reactions.

Possibility of hazardous reactions: No dangerous reactions known.

Materials to avoid: No materials which may cause dangerous reactions.

Hazardous decomposition products: No dangerous decomposition products known.

Toxicological information

Hazardous polymerization: Will not occur.

Routes of exposure: Inhalation : Inhalation of aerosols may cause allergic type reactions in sensitive individuals.

Ingestion: Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract.

Skin and eye contact: Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.



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Additional toxicological information :

When used and handled according to specifications, the product does not have any harmful effects.

The product is not listed in a priority list as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of the existing substances.

Ecological information

Ecotoxicity: The product is considered not dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulation, aquatic toxicity and other data relating to ecotoxicity. Persistence and degradability : The product is readily biodegradable.

Bioaccumulative potential: It is considered that the product does not accumulate in biota, and does not pass through the food chain.

Other adverse effects: Not applicable.

Disposal considerations

The disposal of the product does not pose danger.

No special disposal methods required, except to be in accordance with current local environmental regulations.

Transport information

Special precautions: None known.

Proper shipping name: "Non-dangerous goods" according to transport regulations.

National transport regulations: No additional national transport regulations are known to the supplier.

IMDG: Non-hazardous for sea freight.

ADR: Non-hazardous for road transport.

RID: Non-hazardous for rail transport.

ICAO/IATA: Non-hazardous for air transport.

Regulatory information

Other information: The product may be stored in ice during the transportation.

US

Labelling according to US Regulations: Caution: Avoid contact and inhalation.

US Regulatory information: SARA LISTED: No.

EU

Labelling according to EU Guidelines: The product is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, and 88/379/ECC, and is not labelled with danger symbols or indications of danger.

Canada WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

DSL: No.

NDSL: No.



Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Bio-Helix Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

