

MSDS FastGene® DNA 50 bp ladder (Ready to use)

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The format of the MSDS complies with Commission Directive 2001/58/EC as amended.

Section 1: Chemical Identification

Product name FastGene® 50 bp DNA Ladder (Ready to Use)

Product Cat. No. MWD50

Use of the preparation:

For laboratory use. Suitable for use as molecular weight standards for agarose gel electrophoresis.

Section 2-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.

Section 3- Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EC and is not labeled 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.

Section 4- 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.
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.

Section 5- Fire-fighting measures

The preparation 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.

Section 6- 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.

Section 7-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 preparation.

Section 8-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 preparation.
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 preparation. Safety glasses are recommended during certain operations when aerosol formation is possible. Skin protection: The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). None specific requirements.

Section 9- Physical and chemical properties

Appearance:	Liquid.
Color:	Green
Odor:	Odorless.
pH-value at 25 °C:	8.0.
Boiling point:	100 °C.
Flash Point:	Not applicable.
Flammability / autoflammability:	The preparation is not flammable/self-igniting.
Explosive properties:	The preparation does not possess explosive properties.
Oxidizing properties:	Not applicable.
Vapor pressure:	Not applicable.
Relative density at 20 °C:	~1 g/cm ³
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.

Section 10- 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.
Hazardous polymerization:	Will not occur.

Section 11- Toxicological information

Routes of exposure:

Inhalation:

Inhalation of aerosols may cause allergic type reactions in sensitized 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.

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.

Section 12- Ecological information

Eco-toxicity:

The preparation is considered not dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulation, aquatic toxicity and other data relating to eco-toxicity.

Persistence and degradability:

The preparation is readily biodegradable.

Bioaccumulative potential:

It is considered that the preparation does not accumulate in biota, and does not pass through the food chain.

Other adverse effects:

Not applicable.

Section 13- Disposal considerations

The disposal of the product does not present a danger.

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

Section 14- Transport information

Special precautions:

None known.

Proper shipping name:

Not 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.

Other information:

The preparation may be stored in ice during the transportation.

Section 15- Regulatory information

US

Labelling according to US Regulations:

Caution: Avoid contact and inhalation.

US Regulatory information:

SARA LISTED: No

EU

Labelling according to EU Guidelines:

The preparation 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 MSDS contains all the information required by the CPR.

DSL:

No.

NDSL:

No.

Section 16- 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. Nippon Genetics Europe GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. **Nippon Genetics Europe GmbH, Mariaweilerstraße 28-30, 52349 Düren, Germany**
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