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## FastGene® 1 kb DNA Ladder PLUS

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830

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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Name: FastGene® 1 kb DNA Ladder PLUS  
Cat. No.: NE-MWD1P  
EC Substance name: not available  
CAS Number: not available  
EC Number: not available  
REACH Reference Number: not available

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Suitable for use as molecular  
Uses advised against: Unknown.

#### 1.3 Details of the supplier of the safety data sheet

Supplier: NIPPON GENETICS EUROPE GmbH  
Mariaweilerstraße 28-30  
D- 52349 Düren, Germany  
Phone.: +49 (0) 2421 / 554960  
Fax: +49 (0) 2421 / 5549611  
E-Mail: [info@nippongenetics.de](mailto:info@nippongenetics.de)  
Internet: [www.nippongenetics.eu](http://www.nippongenetics.eu)

Information on further details at: Technical Support  
Phone: +49 (0) 2421 / 554960  
Fax: +49 (0) 2421 / 5549611  
E-Mail: [sdb@nippongenetics.de](mailto:sdb@nippongenetics.de)

#### 1.4 Emergency telephone no:

Emergency information: Phone: +49 (0) 2421 / 554960  
Within the business hours: Monday to Friday, 8 a.m. to 5 p.m.

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No. 1272/2008 (CLP);

No applicable

#### 2.2 Labelling elements

Labelling according to the Regulation (EC) No. 1272/2008 (CLP);

Substance on the label: not available  
Pictograms: void  
Signal word: none  
H statements: void  
P statements: void

#### 2.3 Other hazards:

On PBT or vPvB properties of the product or its ingredients according to the criteria of REACH Annex XIII no information is available.

Physical-chemical hazardous effects are unknown. On complains and symptoms as well as to harmful effects no data are available.

The preparation 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:

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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.

### 3. Composition / information on ingredients:

3.1 Substances: not relevant

3.2 Mixtures:

Chemical characterization:

Chemical name	REACH Ref. No.	EC No.	Index No.	CAS No.	Content	Classification
Water	not available	231-791-2	not available	7732-18-5	>50%	not classified as hazardous
Glycerol	Not available	200-289-5	not available	56-81-5	10-25%	not classified as hazardous


Components not listed here are not dangerous or their concentration 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.

### 4. First aid measures

4.1 Description of the first aid measures:

4.1.1 General information:

 If complaints persist consult a physician. Remove contaminated cloths and shoes, thoroughly clean before re-use. If complaints and symptoms occur seek medical advice.


4.1.2 Inhalation:

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

4.1.3 Skin contact:

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

4.1.4 Eyes contact:

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

4.1.5 Ingestion:

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

4.2 Most important symptoms and effects, both acute and delayed:

Not relevant

4.3 Indication of any immediate medical attention and special treatment needed:

Decontamination, symptomatic treatment. No specific antidote known.

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### 5. Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media:



The product is not combustible, adapt the measures to the environment: water spray, carbon dioxide, extinguishing foam and dry extinguishing agent.

##### Not suitable extinguishing media for safety reasons:

None

#### 5.2 Special hazards arising from the substance or mixture:

Not thoroughly investigated.



##### Advice for fire fighters:



Use a self-contained breathing apparatus (SCBA) at poor ventilation and in closed rooms. Wear protection cloth.

Adapt the extinguishing media and fire-fighting measures to the environment.

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### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Mind the protection measures (section 8). Avoid the contact with skin, eyes and cloth, wear suitable protection equipment. Ensure adequate ventilation. Avoid aerosol formation.

#### 6.2 Environmental precautions:

No special measures required.

#### 6.3 Methods and material for containment and cleaning up:

Take up with liquid-binding agents, e.g. universal binder, treat material as described in section 13 „Disposal considerations“. Clean contaminated surfaces with water.

#### 6.4 Reference to other sections:

Refer to section 8 – personal protection and section 13 – information on disposal.

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### 7. Handling and storage

#### 7.1 Precautions for safe handling:

##### 7.1.1 Information on safe use:

Avoid inhalation of aerosol, contact with eyes, skin and cloth, as well as longer or repeated exposure. Provide sufficient ventilation of the working room (local exhaust ventilation if needful). If workplace exposure limits are exceeded, wear appropriate respiratory protection.

##### 7.1.2 Information on fire and explosion protection:

No special measures needful.

##### 7.1.3 Handling rules:

No further requirements.

#### 7.2 Conditions for safe storage considering incompatibilities:

##### 7.2.1 Technical measures and storage conditions:

Keep opened container tightly closed again and stored upright to prevent leakage. Always keep in containers of the same material as the original. Storage temperature -20 ° C recommended.

##### 7.2.2 Packing materials:

Packing materials must be tested for durability before use.

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### 7.2.3 Requirements for storage rooms and containers:

Storage in passages, stairs, public areas, roofs and workrooms is not permitted. Do not use food containers because of the risk of confusion. Label containers clearly and permanently. If possible, keep in the original container, keep container tightly closed.

### 7.2.4 Information on cumulative storage:

**Storage class:** not relevant.

### 7.2.5 Further information to the storage conditions:

none

### 7.3 Specific end uses:

none

## 8. Exposure controls / personal protection

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure limits:

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

### 8.2 Exposure controls:

#### 8.2.1 Personal protection:



##### Respiratory protection:

No respiratory protection is necessary when working with the product.

##### Hand protection:



At the risk of skin contact with the product, ensure adequate protection by wearing suitable protective gloves, e.g. according to EN 374. Before use, test protective gloves for suitability under the specific working conditions (e.g., mechanical resistance, product compatibility and antistatic properties). Observe the instruction and information on the use, storage, maintenance and replacement of protective gloves. Damaged and worn protective gloves should be replaced immediately.

##### Eye protection:



Eye protection goggles with side protection (EN 166).

##### Skin protection



Use clothing usual in the chemical industry. Skin protection agents are not as effective as protective gloves, so they should be preferred as much as possible. If no protective gloves can be worn, apply water-insoluble skin protection preparations to the clean skin before starting work and after every break. Before breaks and at the end of work, skin cleansing with soap and water is required. After cleansing, use a greasy skin care product.

##### Body protection:



Special body protection generally not required, normal work clothes adequate.

##### General protection and hygiene measure:



Do not eat, drink or smoke during working hours. Keep away from food and drink. Avoid contact with eyes and skin. Remove contaminated and soaked clothing immediately. Wash hands before breaks and after work.

#### 8.2.2 Limitation of the environmental exposure:

Avoid leaks and spills.

#### 8.2.3 Limitation of the consumer's exposure:

Avoid inhalation of vapors, mists or gases, remove sources of ignition.

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### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### 9.1.1 Appearance:

Physical status:	liquid
Color:	blue
Odor:	odorless

##### 9.1.2 Fundamental data relevant for security:

Parameter	Wert	Unit	Method	Remarks
pH value at 25°C	8.0	----	visual by pH paper	
Melting point/range	approx.0	°C	----	32°F
Boiling point/range	approx.100	°C	----	212°F
Evaporation rate (water=1)	n.a.	----	----	
Flash point	n.a.	°C	----	
Self-ignition temperature	n.b.	°C	----	
Vapor pressure at 20°C	n.a.	mmHg	----	
Density	1	g/cm <sup>3</sup>		
Bulk density	n.d.	g/m <sup>3</sup>	----	
Vapor density (air=1)	n.a.	g/m <sup>3</sup>	----	
Water solubility at 20 °C	----	mg/L	----	unlimited
Granulometry	n.a.	µm	----	
Conductivity	n.d.	----	----	
Dynamic viscosity	n.b.	mPa*s	----	
Explosion limit	lower:	n.a.	Vol. %	
	upper:	n.a.	Vol%	

n.a.: not applicable

n.d.: not determined

#### 9.2 Other information:

not relevant

### 10. Stability and Reactivity

#### 10.1 Reactivity:

Not reactive under the intended use and storage conditions.

#### 10.2 Chemical stability:

Chemically stable under the intended use and storage conditions.

#### 10.3 Possibility of hazardous reactions:

Unknown under the intended use and storage conditions.

#### 10.4 Conditions to avoid:

No conditions which may cause dangerous reactions.

#### 10.5 Incompatible materials:

None.

#### 10.6 Hazardous decomposition products

Not dangerous decomposition products known.



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### 11. Toxicological information

#### 11.1 Information on toxicological effects:

##### 11.1.1 Toxicokinetics, metabolism and distribution:

No data available.

##### 11.1.2 Acute toxicity:

No data available.

##### 11.1.3 Corrosive and irritation effects:

Inhalation of aerosols may cause allergic type reactions in sensitive individuals. Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract. Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

##### 11.1.4 Sensitizing effects:

No data available.

##### 11.1.5 Subacute and chronic toxicity:

No data available.

##### 11.1.6 Carcinogenicity, mutagenicity and reproduction toxicity:

On carcinogenicity, mutagenicity and reproduction toxicity of the product no data are available.

##### 11.1.7 Experience from practise:

No data available.

##### 11.1.8 General remarks:

When handled appropriate and used as intended, the product does not cause harmful effects according to our experience and current information.

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### 12. Ecological information

**12.1 Toxicity:** No data available.

#### 12.2 Persistence and degradability:

**Biological degradation:** The preparation is readily biodegradable.

**Abiotic degradation:** No data available.

• **Bio-accumulation potential:** Does not accumulate in biota, and does not pass through the food chain.

#### 12.3 Mobility in soil:

**Absorption/Desorption:** No data available.

**12.4 Volatility:** No data available.

#### 12.5 Results of the PBT and vPvB assessment:

On PBT or vPvB properties of the product or its ingredients according to the criteria of REACH Annex XIII no information is available.

#### 12.6 Other adverse effects:

Not applicable.

##### General remarks:

When handled appropriate and used as intended, the product does not cause adverse effects according to our experience and current information, but should not be discharged into large quantities into an outflow or water body.

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### 13. Disposal considerations

#### 13.1 Waste treatment methods:

##### 13.1.1 Product:

The allocation of a waste code number according to the European waste catalog should be done in consultation with the regional waste disposal company.

##### 13.1.2 Packaging:

Residues in packages should be removed, preferably by rinsing with water, and after complete emptying in accordance with the regulations for waste disposal. Packaging which is not completely emptied must be disposed of in the form as determined by the regional waste disposal company.

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### 14. Transport information

14.1 UN number: none

14.2 UN proper shipping name:

No dangerous goods

14.3 Transport hazard class(es): none

Hazard label: none

14.4 Packaging group: none

Hazard number: none

14.5 Environmental hazards: refer to section 12

Marine Pollutant: no

14.6 Special precautions for user:

refer to section 9

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not relevant

Transport category: none

Tunnel code: none

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### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1 EU Regulations:

###### Classification and labelling acc. to Regulation (EC) No. 1272/2008 (CLP):

The product is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, 88/379/ECC, and is not labelled with danger symbols or indication of danger.

##### 15.1.2 National regulations (US):

###### Classification and labelling:

Caution: Avoid contact and inhalation.

###### Other U.K. regulations and guidance:

SARA LISTED: No

##### 15.1.3 National Regulations (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

#### 15.2 Chemical safety assessment:

Chemical safety assessments (CSA) according to the Article 14 Paragraph 1 of the Regulation (EC) No 1907/2006 (REACH) are not available.

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### 16. Other information

#### 16.1 Wordings of the H-statements from the sections 2 and 3:

Not available

#### 16.2 Training advice:

none

#### 16.3 Remarks:

This information is only intended to describe the safety requirements of the product and is based on the present state of our knowledge. They do not constitute a guarantee for the characteristics of the product described in the sense of the statutory warranty regulations. Please refer to the respective product data sheets for the delivery properties. If the product mentioned in this Material Safety Data Sheet is blended, mixed or processed with other materials, the data in this Material Safety Data Sheet may not be transferred to the new material, unless otherwise specified.

End of Safety Data Sheet