



## FastGene 100 bp 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 100 bp DNA Ladder PLUS  
 Cat. No.: NE-MWD100P  
 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: Mixture of chemicals for industrial and public laboratory analysis  
**SU3**: industrial use, also refer to abbreviation in section 16.  
 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. CET

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

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

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) Classification to Regulation (EC) No 1272/2008

#### 2.2 Labelling elements

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

##### Substance on the label:

Pictograms: None

Signal word: None

H statements: None

P statements: None

#### 2.3 Other hazards:

The data available do not support any physical or chemical hazard.

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### 3. Composition / information on ingredients:

3.1 **Substances:** not relevant

#### 3.2 Mixtures:

##### Chemical characterization:

Aqueous solution.

Chemical name	REACH Ref. No.	EC No.	CAS No.	Classification
Glycerol	10-25%	200-289-5	56-81-5	Not Classified

\*

The wordings of the H statements are listed in section 16.

### 4. First aid measures

4.1 **Description of the first aid measures: No special measures required**

#### 4.1.1 General information:



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

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### 4.1.2 Inhalation:

Remove the affected person to fresh air, bring to rest position, keep warm. If complains and symptoms occur seek medical advice.

### 4.1.3 Skin contact:

At contact with the skin immediately wash with much water. If complains and symptoms occur seek medical advice.

### 4.1.4 Eyes contact:



Thoroughly wash the eyes on spread lids with flowing fresh water for 15 minutes, previously remove contact lenses if possible. Provide ophthalmological treatment.

### 4.1.5 Ingestion:

Don't induce vomiting. Let rinse the mouth, let spit of the liquid and let drink copious amounts of water. If complains and symptoms occur seek medical advice.

### 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

### 5.3 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:

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

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

### 7.2 Conditions for safe storage considering incompatibilities:

#### 7.2.1 Technical measures and storage conditions:

Storage at -20°C

#### 7.2.2 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:

Chemical name	CAS No.	Exposure limit type / source
Glycerol	56-81-5	TWA: 10 mg/m <sup>3</sup>

#### 8.1.2 Biological exposure limits:

not available

#### 8.1.3 DNEL and PNEC values:

not available

**Reference:** For the assessment of the own risk assessment measures (**RMM**) with the charge-free tool **ECETOC TRAM** or with another method possibly a scaling for the proof of the safe use should be performed. Existing DNEL/PNEC values also may be extrapolated based at the concentrations from section 3. If an exposure scenario should be completely applicable, this shall be documented.

**Remark:** With data given by an extended SDB, this is to be done within one year after receipt of the eSDB.

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### 8.2 Exposure controls:

#### 8.2.1 Personal protection:

##### Respiratory protection:

No respiratory protection is necessary

##### Hand protection:



At the risk of skin contact with the product, ensure adequate protection by wearing suitable protective gloves.

##### 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.

##### 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.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 9.1.1 Appearance:

Physical status: liquid  
Color: green  
Odor: odorless

#### 9.1.2 Fundamental data relevant for security:

Parameter	Value	Unit	Method	Remarks
pH value at 20°C	8	----	visual by pH paper	
Melting point/range	approx.0	°C	----	32°F
Boiling point/range	approx.100	°C	----	212°F
Flash point	n.a.	°C	----	
Self-ignition temperature	n.b.	°C	----	
Vapor pressure at 20°C	n.a.	mmHg	----	water
Density	n.d.	g/cm <sup>3</sup>		
Bulk density	n.d.	g/m <sup>3</sup>	----	
Vapor density (air=1)	n.d.	g/m <sup>3</sup>	----	water

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Water solubility at 20 °C	Fully miscible	mg/L	----	unlimited
Granulometry	n.a.	µm	----	
Partition coefficient: n-octanol/water log K <sub>ow</sub>	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:

None

### 10.5 Incompatible materials:

None

### 10.6 Hazardous decomposition products

None

## 11. Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Toxicocinetcs, metabolism and distribution:

No data available.

#### 11.1.2 Acute toxicity:

No data available.

#### 11.1.3 Corrosive and irritation effects:

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

#### 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:** Product is readily biodegradable.
  - Abiotic degradation:** No data available.
  - Bio-accumulation potential:** It is considered that the preparation 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.

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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. Recommendation:

AVV waste code number:	16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
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##### 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. Recommendation:

AVV waste code number:	15 01 06	mixed packaging
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### 14. Transport information

14.1 UN number:	3265		
14.2 UN proper shipping name:			
14.3 Transport hazard class(es):		Hazard label:	
14.4 Packaging group:		Hazard number:	
14.5 Environmental hazards:		Marine Pollutant:	
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:	1		
Tunnel code:			

### 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 subject to classification and labelling as it is considered not dangerous.

Authorizations and/or use restrictions: not applicable

Information on Directive 1999/13/EG on VOC emission limitations:

#### 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.

### 16. Other information

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



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### Training advice:

Instruction on hazardous substances is mandatory.

#### 16.2 Abbreviation /Explanation:

#### 16.3 Recommended use restriction:

Not recommended for consumer's use.

#### 16.4 Further information and contact points for technical information:

#### 16.5 Data sources of the Safety Data Sheet creation:

Information on registered substances, European Chemicals Agency (ECHA); Internet: <http://echa.europa.eu/de>.  
Information System on Hazardous Substances of the German Social Accident Insurance (GESTIS), Internet: <http://www.hvbg.de/d/bia/gestis/stoffdb/index.html>.

Hazardous Substances Data Bank (HSDB) – U.S. National Library of Medicine, Internet: <http://toxnet.nlm.nih.gov>

Hommel interaktive 4.0 – Handbook of Dangerous Goods, Internet: <http://www.springer.com/dal/home/chemistry>

CRC Handbook of Chemistry and Physics, 88<sup>th</sup> Edition, 2007-2008, Internet: <http://www.hbcnpnetbase.com>

Safety Data Sheet of the suppliers.

#### 16.6 Amended information and reason for amendment:

Prior version:	Version number	----	Date:	----
Actual version:	Versionsnummer	1.0	Date:	03-09-2020
Kind of amendment:	New creation			
Reason for amendment:	Adoption to the Annex II of the Regulation (EC) No. 1907/2006 (REACH) in the version of the Regulation (EU) 2015/830, and to the Annex I of the Regulation (EC) No. 1272/2008 (CLP).			

#### 16.7 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.