

## FastGene® Unstained Protein Marker

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® Unstained Protein Marker  
Cat. No.: MWP07  
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: Suitable for use as molecular weight standards for SDS-PAGE.

#### 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 Directive 67/548/EEC or Directive 1999/45/EC:

Not applicable

##### Information concerning particular hazards for human and environment:

The product does not have to be labeled due to the calculation procedure of international guidelines.

##### Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

#### 2.2 Labelling elements

##### Labelling according to the EU guidelines:

Observe the general safety regulations when handling chemicals. The product is not subjected to identification regulations according to directives on hazardous materials.

##### Classification system:

NFPA ratings (scale 0 - 4)



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HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

### 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.

### 3. Composition / information on ingredients:

3.1 Substances: not relevant

3.2 Mixtures:

#### Chemical characterization:

Solution, consisting of the following components.

Chemical name	REACH Ref. No.	EC No.	Index No.	CAS No.	Content	Classification
Glycerol	01-2119537204-47	200-289-5	not available	56-81-5	20-50%	No relevance

Components not listed here are not hazardous or their concentration do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### 4. First aid measures

4.1 Description of the first aid measures:

4.1.1 General information:



No special measures.

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:

Generally, the product does not irritate the skin.

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.

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### 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:

No further relevant information available.

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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:

No information available.

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



No further information available.

### 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 eyes. No further precautions required.

### 6.2 Environmental precautions:

Do not allow to enter sewers / surface waters / ground water. Remove fire residues and contaminated aqueous wastes in suitable containers and dispose of them in a controlled manner.

### 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:

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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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. Provide sufficient ventilation of the working room (local exhaust ventilation if needful).

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### 7.1.2 Information on fire and explosion protection:

No special measures needful.

### 7.1.3 Handling rules:

On workplaces only keep available amounts necessary for work progress. Don't leave receptacles stand open. Avoid spilling, preferable handle with non-breakable receptacles or use suitable protection containers on transportation of breakable receptacles.

## 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 4 ° C recommended. Keep away from sunlight.

### 7.2.2 Packing materials:

Packing materials must be tested for durability before use.

### 7.2.3 Requirements for storage rooms and containers:

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:** No required

**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:

Chemical name	EC No.	CAS No.	PEL	TLV
Glycerol	200-289-5	56-81-5	15* - 5** mg/m <sup>3</sup> *total dust **respirable fraction	10* ppm * Mist

**Additional information:** The list that were valid during the creation were used as basis.

### 8.2 Exposure controls:

#### 8.2.1 Personal protection:

##### Respiratory protection:

Not required.



##### Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can't be calculated in advance and has therefore to be checked prior to the application.



##### Eye protection:

Eye protection goggles with side protection (EN 166).

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### 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.

## 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
Odor threshold:	Not determined.

#### 9.1.2 Fundamental data relevant for security:

pH-value:	7.5
Change in condition:	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Void
Flash point:	>100°C (<212°F)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfignition.
Explosive properties:	Product does not present and explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density:	Not determined.
Relative density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.

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**9.2 Other information:** not relevant

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**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 further relevant information available.

**10.5 Incompatible materials:**

No further relevant information available.

**10.6 Hazardous decomposition products**

No dangerous decomposition products known.

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**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:**

No irritant effects.

**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:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**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:**

No data available.

**Abiotic degradation:**

No data available.

**12.3 Bio-accumulation potential:**

No data available.

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### 12.4 Mobility in soil:

#### Absorption/Desorption:

No data available.

### 12.5 Volatility:

No data available.

### 12.6 Water hazard class:

1 (Self-assessment): slightly hazardous for water

### 12.7 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.

### 12.8 Other adverse effects:

Ozone depletion potential and global green-house effects are not known.

#### 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.

## 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.

## 14. Transport information

14.1 UN number: void

14.2 UN proper shipping name:  
void

14.3 Transport hazard class(es): void      **Hazard label:** void

14.4 Packaging group: no      **Hazard number:** no

14.5 Environmental hazards: no      **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:

**Transport category:**

**Tunnel code:**

## 15. Regulatory information

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

- Sara Section 355 (extremely hazardous substances): None of the ingredients is listed.
- Section 313 (Specific toxic chemical listings): None of the ingredients is listed.
- SCA (Toxic Substances Control Act):
  - 56-81-5 glycerol
  - 151-21-3 sodium deodecyl sulphate
  - 7732-18-5 water Proposition 65
- Chemicals known to cause cancer: None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.



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- Chemicals known to cause development toxicity: None of the ingredients is listed.

### 15.2 Cancerogenity categories:

EPA (Environmental Protection Agency) None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.

### 15.3 Product related hazard information:

Observe the general safety regulations when handling chemicals. The product is not subjected to identification regulations according to directives on hazardous materials.

### 15.4 Chemical safety assessment:

A Chemical Safety Assesment has not been carried out.

## 16. Other information

### 16.1 Amended information and reason for amendment:

Prior version:	Version number	----	Date:	----
Actual version:	Versionsnummer	1.1	Datum:	20.05.2020
Kind of amendent:	New address			
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).			

### 16.2 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.