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

1.1 Product identifier

Name:	FastGene® PAGE Gel
Cat. No.:	PG-L012, PG-L420, PG-S012, PG-S412, PG-S420, PG-S816
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
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
	Internet:	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

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 GHS-Classification

Signal Word:	Not hazardous
Health hazards:	Not hazardous
Physical hazards	Not hazardous
Hazard Statements	Not applicable
Precautionary Statements	Not applicable
European Union	
EU Specific Hazard Statements	
R-phrase(s)	None
S-phrase(s)	None

2.2 Principle Routes of Exposure Potential Health Effects

Eyes:	May cause eye irritation with susceptible persons.
Skin:	May cause skin irritation in susceptible persons.
Inhalation:	May be harmful by inhalation.
Ingestion:	May be harmful if swallowed.

2.3 Specific effects

Carcinogenic effects:	None.
Mutagenic effects:	None.
Reproductive toxicity:	None.
Sensitization:	None.

Target Organ Effects: No known effects under normal use conditions.

2.4 HMIS

Health	0
Flammability	0
Reactivity	0

3. Composition / information on ingredients:

3.1 Substances:

Chemical Name	CAS-No	EINECS-No	Weight %
Bis-Tris	6976-37-0	230-237-7	7.33
Glycerol	56-81-5	200-289-5	6.32
EDTA	6381-92-6	200-449-4	0.03

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. First aid measures

4.1 Description of the first aid measures:

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.

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.

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.

5.2 Special hazards arising from the substance or mixture:



In the fire case toxic gases – carbon monoxide, carbon dioxide, organic decomposition products – may be released.

5.3 Special protective equipment for firefighters:
Standard procedure for chemical fires.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Avoid the contact with skin, eyes and cloth, wear suitable protection equipment.

6.2 Environmental precautions:
No special environmental precautions required. See Section 12 for more information.

6.3 Methods and material for containment and cleaning up:
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

7.1 Precautions for safe handling:
Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

7.2 Storage at 4 °C.

8. Exposure controls / personal protection

8.1 Control parameters:

Chemical name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Bis-Tris	None	None	None	None
Glycerol	15 mg/m^3 5 mg/m^3	None	None	None
EDTA	None	None	None	None

8.2 Engineering measures

Ensure adequate ventilation, especially in confined areas.

8.3 Personal protective equipment:



Hand protection:
Impervious gloves.



Eye protection:
Eye protection goggles with side protection (EN 166).



Skin and body protection
Lightweight protective clothing.



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.

8.4 Limitation of the environmental exposure:
No special environmental precautions required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance:

Physical status:	gel
Color:	transparent
Odor:	odorless

9.1.2 Fundamental data relevant for security:

Parameter	Value
Molecular Weight	Not available
pH	6.4
BP/BP Range	Not available
MP/MP Range Not available	Not available
Freezing Point Not available	Not available
Vapor Pressure Not available	Not available
Vapor Density Not available	Not available
Saturated Vapor Conc. Not available	Not available
SG/Density Not available	Not available
Bulk Density Not available	Not available
Odor Threshold Not available	Not available
Volatile%	Not available
VOC Content	Not available
Water Content 76%—92%	76%—92%
Solvent Content	Not available
Evaporation Rate	Not available
Viscosity	Not available
Surface Tension	Not available
Partition Coefficient	Not available
Decomposition Temp.	Not available
Flash Point	Not available
Explosion Limits	Not available
Flammability	Not available
Autoignition Temp	Not available
Refractive Index	Not available

Optical Rotation	Not available
Miscellaneous Data	Not available
Solubility	Not available

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:
High and low temperature.

10.5 Incompatible materials:
Strong acids and bases, oxidizing and reducing agents.

10.6 Hazardous decomposition products
At high temperature carbon monoxide, carbon dioxide, nitrogen oxides, sulfides.

11. Toxicological information

11.1 Information on toxicological effects:

11.1.1 Skin contact:
May cause skin irritation.

11.1.2 Skin absorption:
May be harmful if absorbed through the skin.

11.1.3 Inhalation:
Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

11.1.4 Ingestion:
May be harmful if swallowed.

11.1.5 Conditions aggravated by exposure:
The toxicological properties have not been thoroughly investigated.

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

12. Ecological information

12.1 Eco-toxicity: The product itself and its products of degradation are not toxic.

12.2 Toxicity of the product: The product itself and its products of degradation are not toxic.

12.3 Biodegradation: The product itself and its products of degradation are not toxic.

13. Disposal considerations

Appropriate Method of Disposal of Substance or Preparation:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

DOT

Proper shipping name	Not available
Non-hazardous for transport	This substance is considered to be non-hazardous for transport.

IATA

Non-hazardous for air transport	Non-hazardous for air transport.

15. Regulatory information

International Inventories
Complies

16. Other information

Disclaimer: For *in vitro* research use only.

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.