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FastGene® Western ECL Kit

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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The mixture is not classified as hazardous. The available Safety Data Sheet is based on the information requirement according to REACH Article 32, and therefore voluntarily created according to the Annex II of the Regulation (EC) No. 1907/2006 (REACH) in the version of the regulation (EU) 2015/830.

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

1.1 Product identifier

Name: FastGene® Western ECL Kit – Solution B
Cat. No.: FG-CH01
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
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 Classification of the substance or mixture

Classification according to the Regulation (EC) No. 1272/2008 (CLP);
Not classified as hazardous.

2.2 Labelling elements

Labelling according to the Regulation (EC) No. 1272/2008 (CLP);
Not labelled as hazardous.

Substance on the label: obsolete
Pictograms: obsolete
Signal word: obsolete
H statements: H272 Combustible liquid
H302 Harmful if swallowed
H318 Causes serious eye damage
H335 May cause respiratory irritation

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P statements:	H360	May damage fertility or the unborn child
	P261	Avoid breathing mist / vapours / spray.
	P262	Do not get in eyes, on skin, or on clothing
	P263	Avoid contact during pregnancy/while nursing.
	P270	Do not eat, drink or smoke when using this product.
	P280	Wear protective gloves / eye protection.

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.

3. Composition / information on ingredients:

3.1 Substances: not relevant

3.2 Mixtures:

Chemical characterization:

Aqueous solution of following components.

Chemical name	EC No.	Index No.	CAS No.	Content	Classification
Sodium perborate tetrahydrate	239-172-9	005-019-00-8	10486-00-7	0.2%	not classified as hazardous
Water	231-791-2	not available	7732-18-5	99.8%	not classified as hazardous


* No obligation for declaration according to the chemical legal regulations.

The wordings of the H statements are listed in section 2.2.

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:

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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: dry extinguishing agent.

Not suitable extinguishing media for safety reasons:

Water jet

5.2 Special hazards arising from the substance or mixture:



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

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.

6. Accidental release measures

- No dangerous substances are released.

6.2 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.

6.3 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.

6.4 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.

6.5 Reference to other sections:

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.

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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. Wash hands before eating.

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:

Storage in passages, passages, stairs, public areas, roofs, 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: non-combustible liquids.

Nothing but substances of similar properties should be cumulatively stored. Cumulative storage with substances as follows is prohibited:

- Pharmaceuticals, food and feed, including additives.
- Infectious, radioactive and explosive substances.
- Organic peroxides and very reactive oxidizing substances.

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: not available

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.

8.2 Exposure controls:

8.2.1 Personal protection:

Respiratory protection:

No respiratory protection is necessary when working with the small quantities intended for the product. In case of exceptional operating conditions, working with larger quantities and with the risk of aerosol formation use suitable respiratory protection, e.g. half-masks according to EN 140 with filters according to EN 143-P1. Observe wearing time limit.

Hand protection:

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



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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. According to the Safety Test Report, gloves made of latex (ECO Latex PF250) and nitrile (Orange Nitril 260) are not penetrated under the conditions of the Midori glove penetration test.

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance:

Physical status:	liquid
Color:	colorless
Odour:	odorless

9.1.2 Fundamental data relevant for security:

Parameter	Wert	Unit	Method	Remarks
pH value at 20°C	n.a.	----	----	
Melting point/range	n.a.	°C	----	
Boiling point/range	n.a.	°C	----	
Flash point	n.a.	°C	----	
Self-ignition temperature	n.b.	°C	----	
Vapor pressure at 20 C°	n.d.	hPa	----	
Density	n.d.	g/cm ³		
Bulk density	n.d.	g/m ³	----	

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Water solubility at 20 °C	----	mg/L	----	moderate
Granulometry	n.a.	µm	----	
Partition coefficient: n-octanol/water log K _{ow}	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:

High temperature.

10.5 Incompatible materials:

Metals.

10.6 Hazardous decomposition products

At high temperature carbon monoxide, carbon dioxide, sulfur oxides, organic decomposition products.

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 irritant effect

11.1.3 Corrosive and irritation effects:

May cause irritation of eyes and skin.

11.1.4 Sensitizing effects:

No sensitizing effect known.

11.1.5 Subacute and chronic toxicity:

No data available.

11.1.6 Carcinogenicity, mutagenicity and reproduction toxicity:

On the carcinogenicity and reproduction toxicity of the product and its ingredients 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: No data available.

Abiotic degradation: No data available.

12.3 Bio-accumulation potential: No data available.

12.4 Mobility in soil:

Absorption/Desorption: No data available.

12.5 Volatility: No data available.

12.6 Results of the PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.7 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. 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: not relevant

14.2 UN proper shipping name: not relevant

14.3 Transport hazard class(es): not relevant

14.4 Packaging group: not relevant

14.5 Environmental hazards: not relevant

14.6 Special precautions for user: not relevant

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

Remarks: This product is not classified as dangerous good according to ADR / RID / ADN / IDMG-Code and ICAO / IATA.

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):

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The product is not subject to classification and labelling. Refer to section 2.

Authorizations and/or use restrictions:

not applicable

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

0% VOC in the product

15.1.2 National regulations (United Kingdom):

Classification and labelling:

Not needed

Other U.K. regulations and guidance:

No regulations.

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:

Not available.

16.2 Training advice:

Instruction on hazardous substances is mandatory.

16.3 Recommended use restriction:

Not recommended for consumer's use.

16.4 Amended information and reason for amendment:

Prior version:	Version number	1.0	Date:	25-03-2020
Actual version:	Version number	1.0	Date:	25-03-2020
Kind of amendment:	New version			
Reason for amendment:				

16.5 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. Since Nippon Genetics Europe GmbH cannot control the actual methods, volumes, or conditions of use, the company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this MSDS does not constitute a warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.