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## FastGene® Q-Stain

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® Q-Stain  
Cat. No.: FG-QS1  
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  
Binsfelder Straße 77  
D- 52351 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);

Eye Dam.1; H318

#### 2.2 Labelling elements

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

Substance on the label: (+)-Tartaric acid

Pictograms: GHS05



Corrosion

Signal word: DANGER

H statements: H314

Causes severe skin burns and eye damage.

P statements: P260

Do not breathe dust / fume / mist / spray.

P280

Wear protective gloves/protective clothing/eye protection.

P301+P330+P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P338  
P310 Immediately call a POISON CENTER or doctor/physician.  
P405 Store locked up.  
P501 Dispose of contents/container to disposal according to the national, regional and local regulations.

### 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 organic ingredients.

Chemical name	REACH Ref. No.	EC No.	Index No.	CAS No.	Content	Classification
(+)-Tartaric acid [(2R,3R)-2,3-dihydroxybutane dioic acid]	01-2119537204-47	201-766-0	not available	87-69-4	10-20%	Eye Dam.1;H318
Ethanol (ethyl alcohol)	01-2119457610-43	200-578-6	603-002-00-5	64-17-5	1-5%	Flam.Liq.2;H225 Eye Irrit.2;H319
Sodium benzoate	01-2119460683-35	208-534-8	not available	532-32-1	<0,1%	Eye Irrit.2;H319
Water	not available	231-791-2	not available	7732-18-5	50->100%	not classified as hazardous
Coomassie brilliant blue*	01-2120065623-57	228-058-4	not available	6104-58-1	<0,01%	not classified as hazardous


\* IUPAC name: Hydrogen [4-[4-(p-ethoxyanilino)-4'-[ethyl(m-sulphonatobenzyl)amino]-2'-methylbenzhydrylene]-3-methylcyclohexa-2,5-dien-1-ylidene](ethyl)(m-sulphonatobenzyl)ammonium, monosodium salt

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

## 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.

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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.

## 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:

Water jet

### 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 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

### 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:

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.

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### 6.4 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.

#### 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:

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:** non-combustible corrosive substances.

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, self-reactive 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:

Chemical name	EC No.	CAS No.	Exposure limit type / source	Long-term limit value (8h)	Short-term limit value (15 min)
Ethanol (ethyl alcohol)	200-578-6	64-17-5	Workplace exposure limit (WEL) / Guidance note EH40 – Occupational Exposure Limits / United Kingdom	1920 mg/m <sup>3</sup>	not available

**Measuring methods:** MTA/MA-064/A07: Determination of ethylic alcohol in air – Charcoal adsorption method

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/ Gas Chromatography.

NIOSH 1400: Alcohols I.

OSHA ID-100: Ethyl Alcohol.

### 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. 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

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### 9.1 Information on basic physical and chemical properties

#### 9.1.1 Appearance:

Physical status: liquid  
Color: clear blue  
Odor: odorless

#### 9.1.2 Fundamental data relevant for security:

Parameter	Wert	Unit	Method	Remarks
pH value at 20°C	<2	----	visual by pH paper	
Melting point/range	approx.0	°C	----	32°F
Boiling point/range	approx.100	°C	----	212°F
Evaporation rate (water=1)	<1	----	----	
Flash point	n.a.	°C	----	
Self-ignition temperature	n.b.	°C	----	
Vapor pressure at 20°C	14	mmHg	----	water
Density	n.d.	g/cm <sup>3</sup>		
Bulk density	n.d.	g/m <sup>3</sup>	----	
Vapor density (air=1)	0.7	g/m <sup>3</sup>	----	water
Water solubility at 20 °C	----	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:

High 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, organic decomposition products.



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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:

Classified as skin corrosive and eye damaging with Skin Corr. 1; H314 on the basis of an extreme pH value <2.

The in-vitro test OECD 431 on skin corrosion by reconstructed human epidermis (RHE) resulted positive.

##### 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.

### 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:

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

#### 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.

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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:

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Tartaric acid)

14.3 Transport hazard class(es): 8 (C3)

Hazard label: 8

14.4 Packaging group: II

Hazard number: 80

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: 2

Tunnel code: E: Transit prohibited by category D and E tunnels with more than 8 tonnes of gross weight carried per transport unit.



### 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 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: 1.6% VOC in the product

##### 15.1.2 National regulations (United Kingdom):

###### Classification and labelling:

The product is due to labelling according to the UK regulations.

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

Health and Safety at Work Act 1974.

The Management of Health and Safety at Work regulations 1992.

L5 Control of substances hazardous to Health. The Control of Substances Hazardous to Health Regulations 2002.

Approved codes of practice and guidance.

Guidance Note EH40 – Occupational Exposure Limits.

BS EN ISO 10882-1:2001 - health and safety in welding and allied processes - sampling of air-borne particles and gases in operator's breathing zone – part 1: sampling of airborne particles.



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### 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:

H225 Highly flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.

### 16.2 Training advice:

Instruction on hazardous substances is mandatory.

### 16.3 Abbreviation /Explanation:

SU3: Descriptor for industrial users from ECHA Guide Chemical Safety Information Requirements R.12  
[https://echa.europa.eu/documents/10162/13632/information\\_requirements\\_r12\\_de.pdf](https://echa.europa.eu/documents/10162/13632/information_requirements_r12_de.pdf)  
PNEC: Predicted No Effect Concentration  
DNEL: Derived No Effect Level  
ECETOC-TRAM: Tool free of charge for proving the safe use of registered substances.  
<http://www.ecetoc.org/tra>

### 16.4 Recommended use restriction:

Not recommended for consumer's use.

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

Safety data sheet creator:

**Fit4REACH**

likedealers GmbH

Insterburger Weg 9  
D-47495 Rheinberg  
Hallbergstrasse 10  
D-40239 Düsseldorf

Contact person:

Dr. Wolfgang Pahlmann  
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Phone: +49 (0) 170 8206788  
Fax: +49 (0) 211 66964872  
Mail: [w.pahlmann@fit4reach.eu](mailto:w.pahlmann@fit4reach.eu)  
Internet: <http://www.fit4reach.eu>

### 16.6 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.hbcpnetbase.com>  
Safety Data Sheet of the suppliers.

### 16.7 Amended information and reason for amendment:

Prior version:	Version number	----	Date:	----
Actual version:	Versionsnummer	1.0	Datum:	12.11.2017
Kind of amendent:	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).			

### 16.8 Remarks:

This information is only intended to describe the safety requirements of the product and is based on the present state

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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.