

First created at: 21-05-2020

Last revision at: 21-05-2020



Printed at: 21-05-2020

Next revision at: 21-05-2021

FastGene® Mag Virus Kit – Lysis Buffer

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830

Page 1 of 8

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

1.1 Product identifier

Name: FastGene® Mag Virus Kit – Lysis Buffer
Cat. No.: FG-84# - MVL
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 usage in FastGene® Mag Virus Kit
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);

Skin Irrit. 2; H315

Eye Dam.2; H319

Acute Tox. 4; H302

2.2 Labelling elements

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

Substance on the label: Lysis Buffer

Pictograms:



GHS07

Signal word: Warning

H statements: H315 Causes skin irritation
H319 Causes serious eye irritation
H302 Harmful if swallowed

P statements: P264 Wash face, hands and any exposed skin thoroughly after

First created at: 21-05-2020

Last revision at: 21-05-2020



Printed at: 21-05-2020

Next revision at: 21-05-2021

FastGene® Mag Virus Kit – Lysis Buffer

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830

Page 2 of 8

handling

P270	Do not eat, drink or smoke when using this product
P260	Avoid breathing dust/fume/gas/mist/vapors/spray
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/ clothing/ eye and face protection
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+P312	Call a poison center or doctor if you feel unwell.
P302+P352	If on skin: Wash with plenty of soap and water
P332+P313	If skin irritation occurs: Get medical advice
P306+P360	Take off contaminated clothing and wash before reuse
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313	If eye irritation persists: get medical advice
P301+P312	If swallowed: Call a poison center or doctor if you feel unwell
P301+P330	If swallowed: Rinse mouth
P312	Call a poison center or doctor if you feel unwell
P403+P233	Store in a well-ventilated place: Keep container closed.
P405	Store locked up
P501	Dispose of contents/containers to an approved waste disposal unit

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. Lysis Buffer

Chemical name	EC No.	Index No.	CAS No.	Content	Classification
Guanidine Hypochloride	200-002-3	607-148-00-0	50-01-1	15-25%	Acute Tox 4. H302 Skin Irrit. 2. H315 Eye Irrit. 2. H319

Other substances chemicals/mixture <2%

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

FastGene® Mag Virus Kit – Lysis Buffer


Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830

Page 3 of 8

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. Do not leave affected person unattended.


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:

Irritant effects, respiratory paralysis, drowsiness, dizziness, unconsciousness, narcosis, inebriation, headache, coma. Drying-out effect resulting in rough and chapped skin.


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:

 Adapt the measures to the environment: water spray, carbon dioxide, extinguishing foam and dry extinguishing agent, ABC-powder, nitrogen.


Not suitable extinguishing media for safety reasons:

None

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. Keep product and empty container away from heat and sources of ignition.

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

First created at: 21-05-2020



Printed at: 21-05-2020

Last revision at: 21-05-2020

Next revision at: 21-05-2021

FastGene® Mag Virus Kit – Lysis Buffer

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830

Page 4 of 8

equipment. Ensure adequate ventilation. Avoid aerosol formation.

6.2 Environmental precautions:

Not necessary

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:

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. Work under hood. Observe label precautions.

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:

FastGene® Mag Virus Kit – Lysis Buffer

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830

Page 5 of 8

8.1.1 Occupational exposure limits:

This product does not contain any hazardous materials with occupational exposures. Limits established by the region specific regulatory bodies.

8.1.2 Biological exposure limits:

not available

8.1.3 DNEL and PNEC values:

none

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:

Not needed

8.2.3 Limitation of the consumer's exposure:

Avoid inhalation of vapors, mists or gases, remove sources of ignition.

First created at: 21-05-2020

Last revision at: 21-05-2020



Printed at: 21-05-2020

Next revision at: 21-05-2021

FastGene® Mag Virus Kit – Lysis Buffer

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830

Page 6 of 8

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance:

Physical status:	liquid
Color:	colorless to light yellow
Odor:	none
pH:	7.4-7.6
Boiling point:	Approx. 100°C
Flash point:	Not applicable
Explosive Properties:	Not applicable
Vapour pressure:	Not applicable
Relative density:	1.10 – 1.13 g/cm ³
Solubility:	Soluble in water

9.2 Other information: not relevant

10. Stability and Reactivity

10.1 Reactivity:

No reactions under the intended use

10.2 Chemical stability:

Chemically stable under the intended use and storage conditions.

10.3 Possibility of hazardous reactions:

none.

10.4 Conditions to avoid:

High temperature. Sparks

10.5 Incompatible materials:

none

10.6 Hazardous decomposition products

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

11. Toxicological information

11.1 Information on toxicological effects:

The following information is valid for pure substances:

Guanidine hydrochloride: CAS-no.: 50-01-1

LD₅₀ (oral, rat): 475 mg/kg

LC₅₀ (inh, rat): 3.2mg/L/4h

LD₅₀ (drm rbt): >2000 mg/kg

other substances <2%: CAS-no.: -

Product is not subject to identification regulations.

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:

No effects

11.1.4 Sensitizing effects:

No data available.

First created at: 21-05-2020

Last revision at: 21-05-2020



Printed at: 21-05-2020

Next revision at: 21-05-2021

FastGene® Mag Virus Kit – Lysis Buffer

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830

Page 7 of 8

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:

The following information is only valid for pure substances.

Guanidine hydrochloride: CAS-no.: 50-01-1

EC₅₀ (Pseudomonas putida/18h) = 88,7 mg/L

LC₅₀ (fish/48h): 1758 mg/L

12.2 Persistence and degradability:

Persistence is unlikely

12.3 Bio-accumulation potential:

No data available

12.4 Mobility in soil:

Water soluble. Will spread in water systems

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.

First created at: 21-05-2020

Last revision at: 21-05-2020



Printed at: 21-05-2020

Next revision at: 21-05-2021

FastGene® Mag Virus Kit – Lysis Buffer

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830
Page 8 of 8

13. Disposal considerations

13.1 Waste treatment methods:

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. Transport information

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID A)

15. Regulatory information

Not applicable, product is not subject to identification regulations.

16. Other information

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

See section 2

16.2 Training advice:

Instruction on hazardous substances is mandatory.

16.3 Amended information and reason for amendment:

Prior version:	Version number	----	Date:	----
Actual version:	Versionsnummer	1.0	Datum:	21.05.2020
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).			

16.4 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.

End of MSDS