

MATERIAL SAFETY DATA SHEET

FastGene® IC Green 2 x qPCR Universal Mix
FastGene® IC Green 2 x qPCR w/ Fluorescein

Cat. No. LS40S, LS4001, LS4005, LS4050, LS41S, LS4101, LS4105, LS4150

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

1.1 Product Details:

Kit codes and components:

LS40S	FastGene® IC Green 2 x qPCR Universal	10 rxns
LS4001	FastGene® IC Green 2 x qPCR Universal	100 rxns
LS4005	FastGene® IC Green 2 x qPCR Universal	500 rxns
LS4050	FastGene® IC Green 2 x qPCR Universal	5000 rxns
LS41S	FastGene® IC Green 2 x qPCR w/ Fluorescein	10 rxns
LS4101	FastGene® IC Green 2 x qPCR w/ Fluorescein	100 rxns
LS4105	FastGene® IC Green 2 x qPCR w/ Fluorescein	500 rxns
LS4150	FastGene® IC Green 2 x qPCR w/ Fluorescein	5000 rxns

1.2 Company Details

Manufacturer/ Supplier:

Nippon Genetics Europe GmbH
Mariaweilerstraße 28-30
52349 Düren

Telephone +49 (0) 2421 554960
Email: info@nippongenetics.eu

1.3 Emergency Details

In case of emergency: Contact a local physician.

2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void

- Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

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

- Label elements

- Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

- Safety phrases:

35 This material and its container must be disposed of in a safe way.

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 67-68-5

EINECS: 200-664-3

dimethyl sulfoxide 5-10%

CAS: 56-81-5

EINECS: 200-289-5

glycerol 1.0-2.5%

Eye Irrit. 2, H319

1.0-2.5%

- Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- Description of first aid measures
- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- After eye contact Rinse opened eye for several minutes under running water.
- After swallowing Induce vomiting and call for medical help.
- Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- 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.

7 Handling and storage

- Handling
- Precautions for safe handling: No special measures required.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles: According to product specification
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:

Proprietary Reagent RF I

WEL () Short-term value: 20 mg/m³

Long-term value: 10 mg/m³

56-81-5 glycerol

WEL () Long-term value: 10 mg/m³

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment
- General protective and hygienic measures

The usual precautionary measures should be adhered to when handling chemicals.

- Breathing equipment: Not required.
- Protection of hands: Protective gloves.
- Material of gloves Synthetic gloves
- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
 - Form: Fluid
 - Colour: Colourless
- Odour: Odourless
- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
 - Melting point/Melting range: undetermined
 - Boiling point/Boiling range: 100°C
- Flash point: > 55°C
- Flammability (solid, gaseous) Not applicable.
- Ignition temperature: 270°C
- Decomposition temperature: Not determined.
- Self igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
 - Lower: 1.8 Vol %
 - Upper: 63.0 Vol %
- Vapour pressure at 20°C: 23 hPa
- Density: Not determined

- Relative density Not determined.
- Vapour density Not determined.
- Evaporation rate Not determined.
- Solubility in / Miscibility with
Water: Fully miscible
- Segregation coefficient (n-octanol/water): Not determined.
- Viscosity:
dynamic: Not determined.
kinematic: Not determined.
- Solvent content:
Organic solvents: 12.0 %
Water: 71.3 %
Solids content: 16.7 %
- Other information No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
LD/LC50 values that are relevant for classification:
67-68-5 dimethyl sulfoxide
Oral LD50 14500 mg/kg (rat)
- Primary irritant effect:
· on the skin: No irritant effect.
· on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
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.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- Maritime transport IMDG: This product is not a marine pollutant. No transport restrictions.
- Land transport (ADR): Product does not belong to hazard class of any international agreements on the transport and packaging of dangerous goods.
- Air (IATA): Product does not belong to any hazard classification.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Technical instructions (air):
Class Share in %
NK 10-20
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.