

## MATERIAL SAFETY DATA SHEET

FastGene® Probe 2 x qPCR Universal Mix

Cat. No. LS45S, LS4501, LS4505, LS4550

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

#### 1.1 Product Details:

Kit codes and components:

LS45S	FastGene® PROBE 2 x qPCR Universal	10 rxns
LS4501	FastGene® PROBE 2 x qPCR Universal	100 rxns
LS4505	FastGene® PROBE 2 x qPCR Universal	500 rxns
LS4550	FastGene® PROBE 2 x qPCR Universal	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](mailto:info@nippongenetics.eu)

#### 1.3 Emergency Details

Tel: +49 (0) 2421 554960  
Durin office hours:  
Mo-Fr 8:00 - 17:00 (MESZ).

## 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 CO<sub>2</sub>, 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/m<sup>3</sup>

Long-term value: 10 mg/m<sup>3</sup>

56-81-5 glycerol

WEL ( ) Long-term value: 10 mg/m<sup>3</sup>

- 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:
- Marine pollutant: No
- Special precautions for user Not applicable.
- Transport/Additional information: Not dangerous according to the above specifications.
- 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.