



## MATERIAL SAFETY DATA SHEET

FastGene® IC Green One Step Mix  
FastGene® PROBE One Step Mix

Cat. No. LS43SLRS, LS4301LR, LS4305LR, LS43SHRS, LS4301HR, LS4305HR,  
LS47SLRS, LS4701LR, LS4705LR, LS47SHRS, LS4701HR, LS4705HR

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

#### 1.1 Product Details:

Kit codes and components:

LS43SLRS	FastGene® IC Green One Step Mix Lo-ROX	10 rxns
LS4301LR	FastGene® IC Green One Step Mix Lo-ROX	100 rxns
LS4305LR	FastGene® IC Green One Step Mix Lo-ROX	500 rxns
LS43SHRS	FastGene® IC Green One Step Mix Hi-ROX	10 rxns
LS4301HR	FastGene® IC Green One Step Mix Hi-ROX	100 rxns
LS4305HR	FastGene® IC Green One Step Mix Hi-ROX	500 rxns
LS47SLRS	FastGene® PROBE One Step Mix Lo-ROX	10 rxns
LS4701LR	FastGene® PROBE One Step Mix Lo-ROX	100 rxns
LS4705LR	FastGene® PROBE One Step Mix Lo-ROX	500 rxns
LS47SHRS	FastGene® PROBE One Step Mix Hi-ROX	10 rxns
LS4701HR	FastGene® PROBE One Step Mix Hi-ROX	100 rxns
LS4705HR	FastGene® PROBE One Step Mix Hi-ROX	500 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

In case of emergency: Contact a local physician.

Phone: +49 (0) 2421 / 554960

Within the business hours: Mondy to Friday, 8 a.m. to 5 p.m.



## 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: 126-33-0

EINECS: unclassified

Sulfolane 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

#### 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
  - LD50 Oral - mouse - 1,900 mg/kg
  - LD50 Dermal - rat - >3800 mg/kg
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: mild irritation (rabbit)
- Sensitization: No sensitizing effects known.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity -no data available

Specific target organ toxicity -single exposure no data available

Specific target organ toxicity -repeated exposure no data available

Aspiration hazard -no data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes eye irritation.



### Signs and Symptoms of Exposure.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

· **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**

· **Acquatic 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.