

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LC FS DNA Master SYBR Green I, 96 react.

Version  
1.6

Revision Date:  
19.02.2015

Date of last issue: 08.08.2014  
Date of first issue: 04.10.2012

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Commercial Product Name : LC FS DNA Master SYBR Green I, 96 react.  
Mat.-No./ Genisys-No. : 03003230001

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended restrictions on use : For professional users only.

#### 1.3 Details of the supplier of the safety data sheet

Company : Roche Diagnostics Deutschland GmbH  
-  
Sandhoferstrasse 116  
68305 Mannheim  
E-mail address : mannheim.umweltschutz@roche.com  
Telephone : +496217590  
Telefax : +496217592890  
Responsible Department : +49(0)621-759-2012+49(0)621-759-4848+49(0)8856-60-2629

#### 1.4 Emergency telephone number

In case of emergencies: : Central Works Security +49(0)621-759-2203  
Roche Diagnostics GmbH  
Centre for detoxification: : Mainz +49(0)6131-19240  
Munich +49(0)89-19240

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.3 Other hazards

See SECTION 3

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### SECTION 3: Composition/information on ingredients

#### *LightCycler Enzyme*

##### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

# SAFETY DATA SHEET

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### **Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

### **Hazardous components**

Remarks : No hazardous ingredients

### ***LightCycler Reaction Mix , 10x conc.***

### **Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### **Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

### **Hazardous components**

Remarks : No hazardous ingredients

### ***MgCl2 Solution, 25mM***

### **Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### **Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

### **Hazardous components**

Remarks : No hazardous ingredients

### ***Water***

### **Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### **Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

### **Hazardous components**

Remarks : No hazardous ingredients

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## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

General advice : Do not leave the victim unattended.

If inhaled : Move to fresh air.  
If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

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## LC FS DNA Master SYBR Green I, 96 react.

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- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Rinse mouth with water.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

- Environmental precautions : Local authorities should be advised if significant spillages cannot be contained.

# SAFETY DATA SHEET

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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines

Advice on common storage : No materials to be especially mentioned.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### ***LightCycler Enzyme***

Contains no substances with occupational exposure limit values.

#### ***LightCycler Reaction Mix , 10x conc.***

Contains no substances with occupational exposure limit values.

#### ***MgCl<sub>2</sub> Solution, 25mM***

# SAFETY DATA SHEET

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Contains no substances with occupational exposure limit values.

### **Water**

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### **Personal protective equipment**

Eye protection : Safety glasses

Hand protection

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### **LightCycler Enzyme**

Appearance : liquid

Colour : colourless

Odour : none

Odour Threshold : No data available

pH : 9

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

# SAFETY DATA SHEET

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Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapour pressure : No data available  
Relative vapour density : No data available  
Relative density : No data available  
Density : No data available  
Solubility(ies)  
Water solubility : completely miscible  
Partition coefficient: n-octanol/water : No data available  
Ignition temperature : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity : No data available  
Explosive properties : No data available  
Oxidizing properties : The substance or mixture is not classified as oxidizing.

### ***LightCycler Reaction Mix , 10x conc.***

Appearance : liquid  
Colour : clear  
light yellow  
Odour : none  
Odour Threshold : No data available  
pH : 8,3  
Melting point/range : No data available  
Boiling point/boiling range : No data available  
Flash point : No data available  
Evaporation rate : No data available  
Flammability (solid, gas) : No data available  
Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapour pressure : No data available  
Relative vapour density : No data available  
Relative density : No data available  
Density : No data available  
Solubility(ies)  
Water solubility : completely miscible  
Partition coefficient: n-octanol/water : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LC FS DNA Master SYBR Green I, 96 react.

Version  
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Ignition temperature : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity : No data available  
Explosive properties : No data available  
Oxidizing properties : The substance or mixture is not classified as oxidizing.

### ***MgCl<sub>2</sub> Solution, 25mM***

Appearance : liquid  
Colour : colourless  
Odour : none  
Odour Threshold : No data available  
pH : 6 - 8  
Melting point/freezing point : No data available  
Initial boiling point and boiling range : No data available  
Flash point : does not flash  
Evaporation rate : No data available  
Flammability (solid, gas) : Does not sustain combustion.  
Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapour pressure : No data available  
Relative vapour density : No data available  
Relative density : No data available  
Density : No data available  
Solubility(ies)  
Water solubility : completely miscible  
Partition coefficient: n-octanol/water : No data available  
Ignition temperature : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity : No data available  
Explosive properties : No data available  
Oxidizing properties : The substance or mixture is not classified as oxidizing.

### ***Water***

Appearance : liquid  
Colour : colourless

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LC FS DNA Master SYBR Green I, 96 react.

Version  
1.6

Revision Date:  
19.02.2015

Date of last issue: 08.08.2014  
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Odour : none

Odour Threshold : No data available  
pH : 7,0

Melting point/range : 0,0 °C

Boiling point/boiling range : 99,97 °C  
(1.013 hPa)

Flash point : does not flash

Evaporation rate : No data available  
Flammability (solid, gas) : Does not sustain combustion.

Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapour pressure : 0,61 hPa (0 °C)

23,4 hPa (20 °C)

31,7 hPa (25 °C)

123,3 hPa (50 °C)

385,4 hPa (75 °C)

1.013 hPa (99,97 °C)

Relative vapour density : No data available  
Relative density : No data available  
Density : 0,999 g/cm<sup>3</sup> (0 °C)

1,000 g/cm<sup>3</sup> (3,98 °C)

0,997 g/cm<sup>3</sup> (25 °C)

0,958 g/cm<sup>3</sup> (99,97 °C)

Solubility(ies)  
Solubility in other solvents : (20 °C)  
Solvent: Alcohol  
Description: completely miscible



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LC FS DNA Master SYBR Green I, 96 react.

Version  
1.6

Revision Date:  
19.02.2015

Date of last issue: 08.08.2014  
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Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

### Viscosity

Viscosity, dynamic : 0,998 mPa.s (20 °C)

0,285 mPa.s (99,97 °C)

Explosive properties : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

## 9.2 Other information

### ***LightCycler Enzyme***

No data available

### ***LightCycler Reaction Mix , 10x conc.***

No data available

### ***MgCl<sub>2</sub> Solution, 25mM***

No data available

### ***Water***

Molecular weight : 18,02 g/mol

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

Stable under recommended storage conditions.

No hazards to be specially mentioned.

### 10.4 Conditions to avoid

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LC FS DNA Master SYBR Green I, 96 react.

Version  
1.6

Revision Date:  
19.02.2015

Date of last issue: 08.08.2014  
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Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### ***LightCycler Enzyme***

##### **Acute toxicity**

Not classified based on available information.

##### **Skin corrosion/irritation**

Not classified based on available information.

##### **Serious eye damage/eye irritation**

Not classified based on available information.

##### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

##### **Germ cell mutagenicity**

Not classified based on available information.

##### **Carcinogenicity**

Not classified based on available information.

##### **Reproductive toxicity**

Not classified based on available information.

##### **STOT - single exposure**

Not classified based on available information.

##### **STOT - repeated exposure**

Not classified based on available information.

##### **Aspiration toxicity**

Not classified based on available information.

#### ***LightCycler Reaction Mix , 10x conc.***

##### **Acute toxicity**

Not classified based on available information.

##### **Skin corrosion/irritation**

Not classified based on available information.

##### **Serious eye damage/eye irritation**

Not classified based on available information.

##### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Version  
1.6

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19.02.2015

Date of last issue: 08.08.2014  
Date of first issue: 04.10.2012

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### ***MgCl<sub>2</sub> Solution, 25mM***

### **Acute toxicity**

Not classified based on available information.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### ***Water***

### **Acute toxicity**

Not classified based on available information.

### **Skin corrosion/irritation**

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LC FS DNA Master SYBR Green I, 96 react.

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### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### ***LightCycler Enzyme***

No data available

#### ***LightCycler Reaction Mix , 10x conc.***

No data available

#### ***MgCl<sub>2</sub> Solution, 25mM***

No data available

#### ***Water***

No data available

### 12.2 Persistence and degradability

#### ***LightCycler Enzyme***

No data available

#### ***LightCycler Reaction Mix , 10x conc.***

No data available

#### ***MgCl<sub>2</sub> Solution, 25mM***

No data available

#### ***Water***

No data available

### 12.3 Bioaccumulative potential

#### ***LightCycler Enzyme***

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LC FS DNA Master SYBR Green I, 96 react.

Version  
1.6

Revision Date:  
19.02.2015

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No data available

**LightCycler Reaction Mix , 10x conc.**

No data available

**MgCl<sub>2</sub> Solution, 25mM**

No data available

**Water**

No data available

### 12.4 Mobility in soil

**LightCycler Enzyme**

No data available

**LightCycler Reaction Mix , 10x conc.**

No data available

**MgCl<sub>2</sub> Solution, 25mM**

No data available

**Water**

No data available

### 12.5 Results of PBT and vPvB assessment

**LightCycler Enzyme**

Not relevant

**LightCycler Reaction Mix , 10x conc.**

Not relevant

**MgCl<sub>2</sub> Solution, 25mM**

Not relevant

**Water**

Not relevant

### 12.6 Other adverse effects

**LightCycler Enzyme**

No data available

**LightCycler Reaction Mix , 10x conc.**

No data available

**MgCl<sub>2</sub> Solution, 25mM**

No data available

**Water**

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product

: Can be disposed as waste water, when in compliance with

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local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not applicable

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances  
Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Water contaminating class : WGK 1 slightly water endangering  
(Germany)

#### ***LightCycler Enzyme***

#### **Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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### ***LightCycler Reaction Mix , 10x conc.***

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### ***MgCl<sub>2</sub> Solution, 25mM***

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### ***Water***

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

## **15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

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## **SECTION 16: Other information**

### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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