

MATERIAL SAFETY DATA SHEET According to EC Directive 91/155 EC Date: 01/08/10

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

1.1 Product Details:

Catalogue Number	Trade Name
PB20.11-01	qPCRBIOSyGreen Lo-ROX
PB20.11-05	qPCRBIOSyGreen Lo-ROX
PB20.11-20	qPCRBIOSyGreen Lo-ROX
PB20.11-50	qPCRBIOSyGreen Lo-ROX 50mL
PB20.12-01	qPCRBIOSyGreen Hi-ROX
PB20.12-05	qPCRBIOSyGreen Hi-ROX
PB20.12-20	qPCRBIOSyGreen Hi-ROX
PB20.12-50	qPCRBIOSyGreen Hi-ROX 50ml
PB20.13-01	qPCRBIOSyGreen Fluorescein
PB20.13-05	qPCRBIOSyGreen Fluorescein
PB20.13-20	""
PB20.14-01	qPCRBIOSyGreen Mix Separate-ROX
PB20.14-05	qPCRBIOSyGreen Mix Separate-ROX
PB20.14-20	qPCRBIOSyGreen Mix Separate-ROX
PB20.14-50	qPCRBIOSyGreen Mix Separate-ROX
PB20.15-01	qPCRBIOSyGreen Blue Lo-ROX
PB20.15-05	qPCRBIOSyGreen Blue Lo-ROX
PB20.15-20	qPCRBIOSyGreen Blue Lo-ROX
PB20.15-50	qPCRBIOSyGreen Blue Lo-ROX
PB20.15-s	qPCRBIOSyGreen Blue Lo-ROX
PB20.16-01	qPCRBIOSyGreen Blue Hi-ROX
PB20.16-05	qPCRBIOSyGreen Blue Hi-ROX
PB20.16-20	qPCRBIOSyGreen Blue Hi-ROX
PB20.16-50	qPCRBIOSyGreen Blue Hi-ROX
PB20.16-s	qPCRBIOSyGreen Blue Hi-ROX
PB20.17-01	qPCRBIOSyGreen Blue Separate ROX
PB20.17-05	qPCRBIOSyGreen Blue Separate ROX
PB20.17-20	qPCRBIOSyGreen Blue Separate ROX
PB20.17-50	qPCRBIOSyGreen Blue Separate ROX
PB20.17-s	qPCRBIOSyGreen Blue Separate ROX



PB20.21-01	qPCRBIO Probe Lo-ROX
PB20.21-05	qPCRBIO Probe Lo-ROX
PB20.21-20	""
PB20.21-50	qPCRBIO Probe Lo-ROX
PB20.22-01	qPCRBIO Probe Hi-ROX
PB20.22-05	qPCRBIO Probe Hi-ROX
PB20.22-20	""
PB20.23-01	qPCRBIO Probe No-ROX
PB20.23-05	qPCRBIO Probe No-ROX
PB20.23-20	""
PB20.23-50	""
PB20.24-01	qPCRBIO Probe Mix Separate-ROX
PB20.24-05	qPCRBIO Probe Mix Separate-ROX
PB20.24-20	qPCRBIO Probe Mix Separate-ROX
PB20.24-50	qPCRBIO Probe Mix Separate-ROX
PB20.24-RV1	qPCRBIO Probe Mix Separate-ROX
PB20.25-01	qPCRBIO Probe Mix Lo-ROX
PB20.25-05	qPCRBIO Probe Mix Lo-ROX
PB20.25-20	qPCRBIO Probe Mix Lo-ROX
PB20.25-50	qPCRBIO Probe Mix Lo-ROX
PB20.25-51	qPCRBIO Probe Mix Lo-ROX
PB20.25-S	qPCRBIO Probe Mix Lo-ROX
PB20.26-01	qPCRBIO Probe Mix Hi-ROX
PB20.26-05	qPCRBIO Probe Mix Hi-ROX
PB20.26-20	qPCRBIO Probe Mix Hi-ROX
PB20.26-50	qPCRBIO Probe Mix Hi-ROX
PB20.26-51	qPCRBIO Probe Mix Hi-ROX
PB20.26-S	qPCRBIO Probe Mix Hi-ROX
PB20.27	2x qPCRBIO Probe Blue Mix Separate ROX
PB20.31-01	qPCRBIO HRM Mix
PB20.31-05	qPCRBIO HRM Mix
PB20.31-20	qPCRBIO HRM Mix
PB20.41-01	qPCRBIO Genotyping Mix Lo-ROX
PB20.41-05	qPCRBIO Genotyping Mix Lo-ROX
PB20.41-20	qPCRBIO Genotyping Mix Lo-ROX
PB20.42-01	qPCRBIO Genotyping Mix Hi-ROX
PB20.42-05	qPCRBIO Genotyping Mix Hi-ROX
PB20.42-20	qPCRBIO Genotyping Mix Hi-ROX
PB20.43-01	qPCRBIO Genotyping Mix No-ROX
PB20.43-05	qPCRBIO Genotyping Mix No-ROX
PB20.43-20	qPCRBIO Genotyping Mix No-ROX



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PB20.51-01	20x dUTP/UDGase additive
PB20.51	20x dUTP UDGase Additive

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Component names:

qPCRBIO SyGreen Mix Lo-ROX
qPCRBIO SyGreen Mix Lo-ROX 5000rxns
qPCRBIO SyGreen Mix Hi-ROX
qPCRBIO SyGreen Mix Hi-ROX 5000rxns
qPCRBIO SyGreen Mix Fluorescein
qPCRBIO Probe Mix Lo-ROX
qPCRBIO Probe Mix Lo-ROX 5000rxns
qPCRBIO Probe Mix Hi-ROX
qPCRBIO Probe Mix Hi-ROX 5000rxns
UDGase (2u/ul) 500 units
20x RTase
qPCR SyGreen One-Step Lo-ROX
qPCR SyGreen One-Step Lo-ROX 5000rxns
qPCR SyGreen One-Step Hi-ROX
qPCR Probe One-Step Lo-ROX
qPCR Probe One-Step Lo-ROX
qPCR Probe One-Step Hi-ROX
qPCR Probe One-Step No-ROX

qPCR Probe No-ROX
qPCR Probe No-ROX 5000 rxns
qPCRBIO HRM Mix
qPCRBIO Genotyping Mix No-ROX
qPCRBIO Genotyping Mix Lo-ROX
qPCRBIO Genotyping Mix Hi-ROX
qPCRBIO SyGreen Mix No-ROX
qPCRBIO SyGreen Mix No-ROX 5000rxns
2x qPCRBIO SyGreen Blue Mix No-ROX
2x qPCRBIO SyGreen Blue Mix No-ROX 5000rxns
2x qPCRBIO SyGreen Blue Mix Hi-ROX
2x qPCRBIO SyGreen Blue Mix Hi-ROX 5000rxns
2x qPCRBIO SyGreen Blue Mix Lo-ROX
2x qPCRBIO SyGreen Blue Mix Lo-ROX 5000rxns
20x dUTP UDGase

1.2 Company Details

Manufacturer/Supplier:

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Further information obtainable from:

Technical Services
Details as above

1.3 Emergency Details

24-hour contact in case of emergency:

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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

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· **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.

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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

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- **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.



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- **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.

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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**
- **Acquatic toxicity:** No further relevant information available.



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- **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.

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