PCR Biosystems Ltd
Aztec House
397-405 Archway Road
London, N6 4ER

T: +44 (0) 203 930 8101
E: info@pcrbio.com
Orders: sales@pcrbio.com

www.pcrbio.com

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	qPCRBIO SyGreen Lo-ROX
PB20.11-05	qPCRBIO SyGreen Lo-ROX
PB20.11-20	qPCRBIO SyGreen Lo-ROX
PB20.11-50	qPCRBIO SyGreen Lo-ROX 50mL
PB20.12-01	qPCRBIO SyGreen Hi-ROX
PB20.12-05	qPCRBIO SyGreen Hi-ROX
PB20.12-20	qPCRBIO SyGreen Hi-ROX
PB20.12-50	qPCRBIO SyGreen Hi-ROX 50ml
PB20.13-01	qPCRBIO SyGreen Fluorescein
PB20.13-05	qPCRBIO SyGreen Fluorescein
PB20.13-20	""
PB20.14-01	qPCRBIO SyGreen Mix Separate-ROX
PB20.14-05	qPCRBIO SyGreen Mix Separate-ROX
PB20.14-20	qPCRBIO SyGreen Mix Separate-ROX
PB20.14-50	qPCRBIO SyGreen Mix Separate-ROX
PB20.15-01	qPCRBIO SyGreen Blue Lo-ROX
PB20.15-05	qPCRBIO SyGreen Blue Lo-ROX
PB20.15-20	qPCRBIO SyGreen Blue Lo-ROX
PB20.15-50	qPCRBIO SyGreen Blue Lo-ROX
PB20.16-01	qPCRBIO SyGreen Blue Hi-ROX
PB20.16-05	qPCRBIO SyGreen Blue Hi-ROX
PB20.16-20	qPCRBIO SyGreen Blue Hi-ROX
PB20.16-50	qPCRBIO SyGreen Blue Hi-ROX
PB20.17-01	qPCRBIO SyGreen Blue Separate ROX
PB20.17-05	qPCRBIO SyGreen Blue Separate ROX
PB20.17-20	qPCRBIO SyGreen Blue Separate ROX
PB20.17-50	qPCRBIO SyGreen Blue Separate ROX

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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
PB20.31-01	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
PB20.51-01	20x dUTP/UDGase additive
PB25.11-01	qPCR SyGreen 1-Step Lo-ROX
PB25.11-03	qPCR SyGreen 1-Step Lo-ROX
PB25.11-12	""
PB25.11-50	qPCR SyGreen 1-Step Lo-ROX (5000rxns)
PB25.12-01	qPCR SyGreen 1-Step Hi-ROX
PB25.12-03	qPCR SyGreen 1-Step Hi-ROX
PB25.12-12	""
PB25.21-01	qPCR Probe 1-Step Lo-ROX
PB25.21-03	qPCR Probe 1-Step Lo-ROX
PB25.21-12	""
PB25.21-20	qPCR Probe 1-Step Lo-ROX (2000rxns)
PB25.22-01	qPCR Probe 1-Step Hi-ROX
PB25.22-03	qPCR Probe 1-Step Hi-ROX
PB25.22-12	""

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PB25.23-01	qPCR Probe 1-Step No-ROX
PB25.23-03	qPCR Probe 1-Step No-ROX
PB25.23-12	""
PB25.31-01	qPCR SyGreen 1-Step Go Lo-ROX
PB25.31-03	qPCR SyGreen 1-Step Go Lo-ROX
PB25.31-12	""
PB25.32-01	qPCR SyGreen 1-Step Go Hi-ROX
PB25.32-03	qPCR SyGreen 1-Step Go Hi-ROX
PB25.32-12	""
PB25.41-01	qPCR Probe 1-Step Go Lo-ROX
PB25.41-03	qPCR Probe 1-Step Go Lo-ROX
PB25.41-12	""
PB25.42-01	qPCR Probe 1-Step Go Hi-ROX
PB25.42-03	qPCR Probe 1-Step Go Hi-ROX
PB25.42-12	""
PB25.43-01	qPCR Probe 1-Step Go No-ROX
PB25.43-03	qPCR Probe 1-Step Go No-ROX
PB25.43-12	""
PB25.43-RV1	qPCR Probe 1-Step Go Separate-ROX
PB20.51	20x dUTP UDGase Additive

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

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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 RTase Go Probe
qPCR Probe 1-Step Go No-ROX
qPCR Probe 1-Step Go Lo-ROX
qPCR Probe 1-Step Go Hi-ROX
20x dUTP UDGase

1.2 Company Details

Manufacturer/Supplier:

PCR Biosystems Ltd.
1st Floor
Aztec House
397-405 Archway Road
London, N6 4ER
United Kingdom

Telephone: +44 (0) 203 930 8101
Email: info@pcrbio.com

Further information obtainable from:

Technical Services
Details as above

1.3 Emergency Details

24-hour contact in case of emergency:

PCR Biosystems Ltd.
1st Floor
Aztec House
397-405 Archway Road
London, N6 4ER
United Kingdom

Telephone: +44 (0) 203 930 8101

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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

· **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.

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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.

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· **Material of gloves** Synthetic gloves
· **Penetration time of glove material**
The exact break trough 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

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· **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.
· **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

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· **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.