

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 Trade Names:

2x qPCRBIOSyGreen 1-Step Lo-ROX
2x qPCRBIOSyGreen 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Lo-ROX
2x qPCRBIOSyGreen Probe 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step No-ROX
2x qPCRBIOSyGreen Probe 1-Step Go Lo-ROX
2x qPCRBIOSyGreen Probe 1-Step Go Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Go No-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect No-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect Lo-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect Hi-ROX
20x RTase Go
20x RTase
20x UltraScript RTase
50uM ROX Additive

1.2 Product Details

Catalogue Number	Trade Name
PB25.11-01	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-03	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-12	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.12-01	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.12-03	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.12-12	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.21-01	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.21-03	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.21-12	qPCRBIOSyGreen Probe 1-Step Lo-ROX



PCRBIO SYSTEMS

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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

PB25.22-01	qPCRBIO Probe 1-Step Hi-ROX
PB25.22-03	qPCRBIO Probe 1-Step Hi-ROX
PB25.22-12	qPCRBIO Probe 1-Step Hi-ROX
PB25.23-01	qPCRBIO Probe 1-Step No-ROX
PB25.23-03	qPCRBIO Probe 1-Step No-ROX
PB25.23-12	qPCRBIO Probe 1-Step No-ROX
PB25.31-01	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.31-03	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.31-12	qPCRBIO SyGreen 1-Step Go Lo-ROX
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PB25.41-12	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-50	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-500	qPCRBIO Probe 1-Step Go Lo-ROX

PB25.42-01	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-03	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-12	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-05	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-50	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-500	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-S	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.43-01	qPCRBIO Probe 1-Step Go No-ROX
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PB25.43-S	qPCRBIO Probe 1-Step Go No-ROX
PB25.44-01	qPCRBIO Probe 1-Step Go Separate-ROX
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PB25.44-12	qPCRBIO Probe 1-Step Go Separate-ROX
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PBOEM25.52-S	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.51-02	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-03	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-05	qPCRBIO Probe 1-Step Virus Detect Lo-ROX

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Aztec House

397-405 Archway Road

London, N6 4ER

T: +44 (0) 203 930 8101

E: info@pcrbio.com

Orders: sales@pcrbio.com

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PB25.51-500	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-S	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PBOEM25.51-S	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
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Kit Components:

2x qPCRBIO SyGreen 1-Step Lo-ROX
2x qPCRBIO SyGreen 1-Step Hi-ROX
2x qPCRBIO Probe 1-Step Lo-ROX
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20x RTase
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50uM ROX Additive

1.2 Company Details

Manufacturer/Supplier:

PCR Biosystems Ltd.

1st Floor

Aztec House

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simplifving research
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London, N6 4ER
United Kingdom

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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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1st Floor
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United Kingdom

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2. Hazards identification

- **Trade name** 2x qPCR BIO SyGreen 1-Step Lo/Hi-ROX
- **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



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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.

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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

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.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: 1.8 Vol %

Upper: 63.0 Vol %

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- **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.

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- **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

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - mouse - 1,900 mg/kg

LD50 Dermal - rat - > 3,800 mg/kg

Skin corrosion/irritation - no data available

Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization - no data available

Germ cell mutagenicity - no data available

Carcinogenicity

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.



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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:**

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

1.1 Product Details:

Trade Names:

2x qPCRBIOSyGreen 1-Step Lo-ROX
2x qPCRBIOSyGreen 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Lo-ROX
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2x qPCRBIOSyGreen Probe 1-Step Go Hi-ROX
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4x qPCRBIOSyGreen Probe 1-Step Virus Detect No-ROX
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4x qPCRBIOSyGreen Probe 1-Step Virus Detect Hi-ROX

Catalogue Numbers:

Catalogue Number	Trade Name
PB25.11-01	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-03	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-12	qPCRBIOSyGreen 1-Step Detect Lo-ROX
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PB25.23-12	qPCRBIO Probe 1-Step No-ROX
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2. Hazards identification

- **Trade name** 2x qPCRBIO Probe 1-Step Lo/Hi/No-ROX
- **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**
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

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.

· **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

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - mouse - 1,900 mg/kg

LD50 Dermal - rat - > 3,800 mg/kg

Skin corrosion/irritation - no data available

Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization - no data available

Germ cell mutagenicity - no data available

Carcinogenicity

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.



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.

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:

Trade Names:

2x qPCRBIOSyGreen 1-Step Lo-ROX
2x qPCRBIOSyGreen 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Lo-ROX
2x qPCRBIOSyGreen Probe 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step No-ROX
2x qPCRBIOSyGreen Probe 1-Step Go Lo-ROX
2x qPCRBIOSyGreen Probe 1-Step Go Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Go No-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect No-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect Lo-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect Hi-ROX

Catalogue Numbers:

Catalogue Number	Trade Name
PB25.11-01	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-03	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-12	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.12-01	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.12-03	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.12-12	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.21-01	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.21-03	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.21-12	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.22-01	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.22-03	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.22-12	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.23-01	qPCRBIOSyGreen Probe 1-Step No-ROX



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PB25.23-03	qPCRBIO Probe 1-Step No-ROX
PB25.23-12	qPCRBIO Probe 1-Step No-ROX
PB25.31-01	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.31-03	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.31-12	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.32-01	qPCRBIO SyGreen 1-Step Go Hi-ROX
PB25.32-03	qPCRBIO SyGreen 1-Step Go Hi-ROX
PB25.32-12	qPCRBIO SyGreen 1-Step Go Hi-ROX
PB25.41-01	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-03	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-05	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-12	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-50	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-500	qPCRBIO Probe 1-Step Go Lo-ROX

PB25.42-01	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-03	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-12	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-05	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-50	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-500	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-S	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.43-01	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-03	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-05	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-50	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-500	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-S	qPCRBIO Probe 1-Step Go No-ROX
PB25.44-01	qPCRBIO Probe 1-Step Go Separate-ROX
PB25.44-03	qPCRBIO Probe 1-Step Go Separate-ROX
PB25.44-12	qPCRBIO Probe 1-Step Go Separate-ROX
PB25.52-02	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-03	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-05	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-50	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-500	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-S	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PBOEM25.52-S	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.51-02	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-03	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-05	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-50	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-500	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-S	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PBOEM25.51-S	qPCRBIO Probe 1-Step Virus Detect Lo-ROX

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



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PBOEM25.51-01	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PBOEM25.51-03	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.53-02	qPCRBIO Probe 1-Step Virus Detect No-ROX
PB25.53-03	qPCRBIO Probe 1-Step Virus Detect No-ROX
PB25.53-05	qPCRBIO Probe 1-Step Virus Detect No-ROX
PB25.53-50	qPCRBIO Probe 1-Step Virus Detect No-ROX
PB25.53-500	qPCRBIO Probe 1-Step Virus Detect No-ROX
PB25.53-S	qPCRBIO Probe 1-Step Virus Detect No-ROX
PB25.54-02	qPCRBIO Probe 1-Step Virus Detect Separate-ROX
PB25.54-03	qPCRBIO Probe 1-Step Virus Detect Separate -ROX
PB25.54-05	qPCRBIO Probe 1-Step Virus Detect Separate -ROX
PB25.54-S	qPCRBIO Probe 1-Step Virus Detect Separate -ROX
PBOEM25.54-S	qPCRBIO Probe 1-Step Virus Detect Separate -ROX

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

Kit Components:

2x qPCRBIO SyGreen 1-Step Lo-ROX
2x qPCRBIO SyGreen 1-Step Hi-ROX
2x qPCRBIO Probe 1-Step Lo-ROX
2x qPCRBIO Probe 1-Step Hi-ROX
2x qPCRBIO Probe 1-Step No-ROX
2x qPCRBIO Probe 1-Step Go Lo-ROX
2x qPCRBIO Probe 1-Step Go Hi-ROX
2x qPCRBIO Probe 1-Step Go No-ROX
4x qPCRBIO Probe 1-Step Virus Detect No-ROX
4x qPCRBIO Probe 1-Step Virus Detect Lo-ROX
4x qPCRBIO Probe 1-Step Virus Detect Hi-ROX
20x RTase Go
20x RTase
20x UltraScript RTase
50uM ROX Additive

1.2 Company Details

Manufacturer/Supplier:

PCR Biosystems Ltd.

1st Floor

Aztec House

397-405 Archway Road

London, N6 4ER

United Kingdom

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

Further information obtainable from:

Technical Services
Details as above

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

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

2. Hazards identification

- **Trade name** 2x qPCR BIO Probe 1-Step Go Hi/Lo/No-ROX
- **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

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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.

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

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

· Handling

· **Precautions for safe handling** No special measures required.

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- **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.

PCR Biosystems Ltd
Aztec House
397-405 Archway Road
London, N6 4ER
T: +44 (0) 203 930 8101
E: info@pcrbio.com
specification@pcrbio.com
www.pcrbio.com

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/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.
- **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.

MATERIAL SAFETY DATA SHEET Version 1.5 Valid From 15/06/2020



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- **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.

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

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

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - mouse - 1,900 mg/kg
LD50 Dermal - rat - > 3,800 mg/kg
Skin corrosion/irritation - no data available
Serious eye damage/eye irritation
Eyes - rabbit - Mild eye irritation
Respiratory or skin sensitization - no data available
Germ cell mutagenicity - no data available
Carcinogenicity

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



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

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

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.

MATERIAL SAFETY DATA SHEET Version 1.5 Valid From 15/06/2020



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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:

Trade Names:

2x qPCRBIOSyGreen 1-Step Lo-ROX
2x qPCRBIOSyGreen 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Lo-ROX
2x qPCRBIOSyGreen Probe 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step No-ROX
2x qPCRBIOSyGreen Probe 1-Step Go Lo-ROX
2x qPCRBIOSyGreen Probe 1-Step Go Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Go No-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect No-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect Lo-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect Hi-ROX

Catalogue Numbers:

Catalogue Number	Trade Name
PB25.11-01	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-03	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-12	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.12-01	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.12-03	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.12-12	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.21-01	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.21-03	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.21-12	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.22-01	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.22-03	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.22-12	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.23-01	qPCRBIOSyGreen Probe 1-Step No-ROX



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PB25.23-03	qPCRBIO Probe 1-Step No-ROX
PB25.23-12	qPCRBIO Probe 1-Step No-ROX
PB25.31-01	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.31-03	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.31-12	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.32-01	qPCRBIO SyGreen 1-Step Go Hi-ROX
PB25.32-03	qPCRBIO SyGreen 1-Step Go Hi-ROX
PB25.32-12	qPCRBIO SyGreen 1-Step Go Hi-ROX
PB25.41-01	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-03	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-05	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-12	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-50	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-500	qPCRBIO Probe 1-Step Go Lo-ROX

PB25.42-01	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-03	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-12	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-05	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-50	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-500	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-S	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.43-01	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-03	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-05	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-50	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-500	qPCRBIO Probe 1-Step Go No-ROX
PB25.43-S	qPCRBIO Probe 1-Step Go No-ROX
PB25.44-01	qPCRBIO Probe 1-Step Go Separate-ROX
PB25.44-03	qPCRBIO Probe 1-Step Go Separate-ROX
PB25.44-12	qPCRBIO Probe 1-Step Go Separate-ROX
PB25.52-02	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-03	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-05	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-50	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-500	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.52-S	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PBOEM25.52-S	qPCRBIO Probe 1-Step Virus Detect Hi-ROX
PB25.51-02	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-03	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-05	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-50	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-500	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PB25.51-S	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PBOEM25.51-S	qPCRBIO Probe 1-Step Virus Detect Lo-ROX

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



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PBOEM25.51-01	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
PBOEM25.51-03	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
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PB25.53-500	qPCRBIO Probe 1-Step Virus Detect No-ROX
PB25.53-S	qPCRBIO Probe 1-Step Virus Detect No-ROX
PB25.54-02	qPCRBIO Probe 1-Step Virus Detect Separate-ROX
PB25.54-03	qPCRBIO Probe 1-Step Virus Detect Separate -ROX
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Aztec House

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T: +44 (0) 203 930 8101

E: info@pcrbio.com

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Kit Components:

2x qPCRBIO SyGreen 1-Step Lo-ROX
2x qPCRBIO SyGreen 1-Step Hi-ROX
2x qPCRBIO Probe 1-Step Lo-ROX
2x qPCRBIO Probe 1-Step Hi-ROX
2x qPCRBIO Probe 1-Step No-ROX
2x qPCRBIO Probe 1-Step Go Lo-ROX
2x qPCRBIO Probe 1-Step Go Hi-ROX
2x qPCRBIO Probe 1-Step Go No-ROX
4x qPCRBIO Probe 1-Step Virus Detect No-ROX
4x qPCRBIO Probe 1-Step Virus Detect Lo-ROX
4x qPCRBIO Probe 1-Step Virus Detect Hi-ROX
20x RTase Go
20x RTase
20x UltraScript RTase
50uM ROX Additive

1.2 Company Details

Manufacturer/Supplier:

PCR Biosystems Ltd.

1st Floor

Aztec House

397-405 Archway Road

London, N6 4ER

United Kingdom

MATERIAL SAFETY DATA SHEET Version 1.5 Valid From 15/06/2020



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

Further information obtainable from:

Technical Services
Details as above

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

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

2. Hazards identification

- **Trade name** qPCR BIO Probe 1-Step Virus Detect No/hi/Lo-ROX
- **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 Material (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



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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.

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Aztec House

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London, N6 4ER

T: +44 (0) 203 930 8101

E: info@pcrbio.com

Orders: sales@pcrbio.com

www.pcrbio.com

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

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.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

Lower: 1.8 Vol %

Upper: 63.0 Vol %



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- **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

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - mouse - 1,900 mg/kg

LD50 Dermal - rat - > 3,800 mg/kg

Skin corrosion/irritation - no data available

Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization - no data available

Germ cell mutagenicity - no data available

Carcinogenicity

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.



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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.

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



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

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

Trade Names:

2x qPCRBIOSyGreen 1-Step Lo-ROX
2x qPCRBIOSyGreen 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Lo-ROX
2x qPCRBIOSyGreen Probe 1-Step Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step No-ROX
2x qPCRBIOSyGreen Probe 1-Step Go Lo-ROX
2x qPCRBIOSyGreen Probe 1-Step Go Hi-ROX
2x qPCRBIOSyGreen Probe 1-Step Go No-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect No-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect Lo-ROX
4x qPCRBIOSyGreen Probe 1-Step Virus Detect Hi-ROX

Catalogue Numbers:

Catalogue Number	Trade Name
PB25.11-01	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-03	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.11-12	qPCRBIOSyGreen 1-Step Detect Lo-ROX
PB25.12-01	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.12-03	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.12-12	qPCRBIOSyGreen 1-Step Detect Hi-ROX
PB25.21-01	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.21-03	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.21-12	qPCRBIOSyGreen Probe 1-Step Lo-ROX
PB25.22-01	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.22-03	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.22-12	qPCRBIOSyGreen Probe 1-Step Hi-ROX
PB25.23-01	qPCRBIOSyGreen Probe 1-Step No-ROX



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PB25.23-03	qPCRBIO Probe 1-Step No-ROX
PB25.23-12	qPCRBIO Probe 1-Step No-ROX
PB25.31-01	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.31-03	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.31-12	qPCRBIO SyGreen 1-Step Go Lo-ROX
PB25.32-01	qPCRBIO SyGreen 1-Step Go Hi-ROX
PB25.32-03	qPCRBIO SyGreen 1-Step Go Hi-ROX
PB25.32-12	qPCRBIO SyGreen 1-Step Go Hi-ROX
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PB25.41-05	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-12	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-50	qPCRBIO Probe 1-Step Go Lo-ROX
PB25.41-500	qPCRBIO Probe 1-Step Go Lo-ROX

PB25.42-01	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-03	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.42-12	qPCRBIO Probe 1-Step Go Hi-ROX
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PB25.42-S	qPCRBIO Probe 1-Step Go Hi-ROX
PB25.43-01	qPCRBIO Probe 1-Step Go No-ROX
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PB25.44-01	qPCRBIO Probe 1-Step Go Separate-ROX
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PB25.51-02	qPCRBIO Probe 1-Step Virus Detect Lo-ROX
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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



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Kit Components:

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2x qPCRBIO SyGreen 1-Step Hi-ROX
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2x qPCRBIO Probe 1-Step Hi-ROX
2x qPCRBIO Probe 1-Step No-ROX
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4x qPCRBIO Probe 1-Step Virus Detect No-ROX
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4x qPCRBIO Probe 1-Step Virus Detect Hi-ROX
20x RTase Go
20x RTase
20x UltraScript RTase
50uM ROX Additive



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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

2. Hazards identification

- **Trade name** 20x RTase, 20x RTase Go and 20x UltraScript RTase
- **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.

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



3. Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**
Glycerol
CAS: 56-81-5
EINECS: 200-289-5

· **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**
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.



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- **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.

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

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:**

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.
- **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:**

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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**

· **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.



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- **Other adverse effects** No further relevant information available.

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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.