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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: PCRBIO VeriFi Polymerase

Catalogue Numbers: PB10.42-01

PB10.42-05

Kit Component: PCRBIO VeriFi Polymerase ( 2 u / µl )

#### 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:



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Telephone: +44 (0) 203 930 8101

#### 2. Hazards identification

- · Trade name PCRBIO VeriFi Polymerase (PCRBIO VeriFi Polymerase (2u/µl)
- · 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:

Glycerol CAS: 56-81-5 EINECS: 200-289-5 50-60% content

· 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.



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- · 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:

56-81-5 glycerol

WEL () Long-term value: 10 mg/m<sup>3</sup>

· Additional information: The lists that were valid during the creation were used as basis.

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- · 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 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

Colourless

· Odour: Odourless

- · Odour threshold: No data available
- · pH-value: No data available
- · Change in condition

Melting point/Melting range: No data available Boiling point/Boiling range: No data available

- · Flash point: No data available
- · 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: No data available Upper: No data available

- · Vapour pressure at 20°C: No data available
- · Density: No data available
- · Relative density : > 1 (Water = 1)
- · Vapour density No data available
- · Evaporation rate No data available
- · Solubility in / Miscibility with

Water: Fully miscible

- · Segregation coefficient (n-octanol/water): Not determined.
- · Viscosity:

dynamic: No data available kinematic: No data available

· Other information No further relevant information available.

# 10. Stability and reactivity

- Reactivity
- · Chemical stability



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- · 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:

56-81-5 glycerol

Oral LD50 1200 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Not classified. Based on available data, the classification criteria are not met
- · on the eye: Not classified. Based on available data, the classification criteria are not met
- · Sensitization: Not classified. Based on available data, the classification criteria are not met
- · 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 Miscible with water.
- · 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.



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# 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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# 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: PCRBIO VeriFi Polymerase

Catalogue Numbers: PB10.42-01

PB10.42-05

Kit Component: 5x PCRBIO VeriFi Buffer

#### 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:

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#### 2. Hazards identification

- · Trade name PCRBIO VeriFi Polymerase (5x PCRBIO VeriFi Buffer)
- · 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: This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II
- · 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



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- · 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
- $\cdot$  Components with limit values that require monitoring at the workplace: n/a
- · 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.

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- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · 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: No data available
- · pH-value: No data available
- · Change in condition

Melting point/Melting range: No data available Boiling point/Boiling range: No data available

- · Flash point: No data available
- · 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: No data available Upper: No data available

- · Vapour pressure at 20°C: No data available
- · Density: No data available
- · Relative density : > 1 (Water = 1)
- · Vapour density No data available
- Evaporation rate No data available
- · Solubility in / Miscibility with

Water: Fully miscible

- · Segregation coefficient (n-octanol/water): Not determined.
- · Viscosity:

**dynamic:** No data available **kinematic:** No data available

· 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

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# 11. Toxicological information

- · Information on toxicological effects
- · Acute toxicity: Not classified. Based on available data, the classification criteria are not met
- · Primary irritant effect:
- · on the skin: Not classified. Based on available data, the classification criteria are not met
- · on the eye: Not classified. Based on available data, the classification criteria are not met
- · Sensitization: Not classified. Based on available data, the classification criteria are not met
- · 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: No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil Miscible with water
- · 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



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- · 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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# 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: PCRBIO VeriFi Mix

Catalogue Numbers: PB10.43-01

PB10.43-05

Kit Component: 2x PCRBIO VeriFi Mix

#### 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:



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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 PCRBIO VeriFi Mix (2x PCRBIO VeriFi Mix)
- · 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 quideline 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:

Glycerol CAS: 56-81-5 EINECS: 200-289-5 1-2.5% content

· 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.



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- · 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:

56-81-5 glycerol

WEL () Long-term value: 10 mg/m<sup>3</sup>

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls



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- · 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 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: No data available
- · pH-value: No data available
- · Change in condition

Melting point/Melting range: No data available Boiling point/Boiling range: No data available

- · Flash point: No data available
- · 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: No data available Upper: No data available

- · Vapour pressure at 20°C: No data available
- · Density: No data available
- · Relative density :  $\approx 1$  (Water = 1)
- · Vapour density No data available
- · Evaporation rate No data available
- · Solubility in / Miscibility with

Water: Fully miscible

- · Segregation coefficient (n-octanol/water): Not determined.
- · Viscosity:

**dynamic:** No data available **kinematic:** No data available

· 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:

56-81-5 glycerol

Oral LD50 1200 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Not classified. Based on available data, the classification criteria are not met
- · on the eye: Not classified. Based on available data, the classification criteria are not met
- · Sensitization: Not classified. Based on available data, the classification criteria are not met
- · 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 Miscible with water.
- · 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.



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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: PCRBIO VeriFi Mix Red

Catalogue Numbers: PB10.44-01

PB10.44-05

Kit Component: 2x PCRBIO VeriFi Mix Red

#### 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:



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

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### 2. Hazards identification

- · Trade name PCRBIO VeriFi Mix Red (2x PCRBIO VeriFi Red)
- · 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 quideline 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:

Glycerol CAS: 56-81-5 EINECS: 200-289-5 1-2.5% content

· 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.



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- · 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:

56-81-5 glycerol

WEL () Long-term value: 10 mg/m<sup>3</sup>

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls



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- · 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 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: Pale Red · Odour: Odourless
- · Odour threshold: No data available
- · pH-value: No data available
- · Change in condition

Melting point/Melting range: No data available Boiling point/Boiling range: No data available

- · Flash point: No data available
- · 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: No data available Upper: No data available

- · Vapour pressure at 20°C: No data available
- · Density: No data available
- · Relative density :  $\approx 1$  (Water = 1)
- · Vapour density No data available
- · Evaporation rate No data available
- · Solubility in / Miscibility with

Water: Fully miscible

- · Segregation coefficient (n-octanol/water): Not determined.
- · Viscosity:

**dynamic:** No data available **kinematic:** No data available

· 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:

56-81-5 glycerol

Oral LD50 1200 mg/kg (rat)

- · Primary irritant effect:
- on the skin: Not classified. Based on available data, the classification criteria are not met
- · on the eye: Not classified. Based on available data, the classification criteria are not met
- · Sensitization: Not classified. Based on available data, the classification criteria are not met
- · 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 Miscible with water.
- · 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

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- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16. Other information

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