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 HS VeriFi Mix

Catalogue Numbers: PB10.46-01
                  PB10.46-02
                  PB10.46-05
                  PB10.46-S

Kit Component: 2x PCRBIO HS 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:
2. Hazards identification

- Trade name: PCRBIO HS VeriFi Mix (2x PCRBIO HS 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 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
    - 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.
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 fire fighters
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 (W) Long-term value: 10 mg/m³
MATERIAL SAFETY DATA SHEET Version 1.0 Valid From 30/10/2019
· 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: 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

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  
· 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.