

# 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: PCR BIO Rapid Extract PCR Kit

Catalogue Numbers: PB10.24-08  
PB10.24-40

Kit Components: 5x Rapid Extract Buffer A  
10x Rapid Extract Buffer B  
2x PCR BIO HS Taq Mix Red

### 1.2 Company Details

Manufacturer/Supplier:

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

Telephone: +44 (0) 203 930 8101  
Email: [info@pcrbio.com](mailto: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.  
1<sup>st</sup> Floor  
Aztec House  
397-405 Archway Road  
London, N6 4ER  
United Kingdom

Telephone: +44 (0) 203 930 8101

## 2. Hazards identification

Product name	Directive 1999/45/EC	GHS Directive 1272/2008/EC
Buffer B	IRRITANT  R36/37/38 R42	DANGER  H315 – Skin Irrit. 2 H319 – Eye Irrit. 2 H334 – Resp. Sens. 1 H335 – STOT SE 3
2x PCR BIO HS Taq Mix Red	Does not need labelling as hazardous	Does not need labelling as hazardous

According to Regulation (EC) No1272/2008  
Skin Irritant (Category 2)  
Eye Irritant (Category 2)  
Respiratory Sensitivity (Category 1)  
Specific Target Organ Toxicity (Single exposure) [Respiratory tract irritation] (Category 3)

According to European Directive 67/548/EEC as amended.  
Xi – Irritant

### Label elements

Pictogram



Signal word

Warning  
Danger

### Hazard statement(s)

H315  
H319  
H334  
  
H335

Causes skin irritation.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.

**Precautionary statement(s)**

P261S  
P280sh  
P302+352  
P305+351+338

Avoid breathing dust  
Wear protective gloves/eye protection  
IF ON SKIN: Wash with plenty of soap and water  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Hazard symbol(s)**

Xi

Sensitising

**R-phrases(s)**

R36/37/38  
R42

Irritating to eyes, respiratory system and skin.  
May cause sensitisation by inhalation.

**S-phrases(s)**

S36/37

Wear suitable protective clothing and gloves

**Other hazards**

None

### 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

Proteinase K

EC-No 254-457-8, 5-10%, Classification H315;H319;H334;H335

· **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**

CO<sub>2</sub>, 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**
- **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

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

67-68-5 dimethyl sulfoxide

Oral LD50 14500 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12. Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13. Disposal considerations

- **Waste treatment methods**
- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14. Transport information

- **Maritime transport IMDG:**
- **Marine pollutant:** No
- **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.