



**PCRBIO SYSTEMS**  
simplifying research

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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: PCR BIO Rapid Extract Lysis Kit

Catalogue Numbers: PB15.11-08  
PB10.24-40

Kit Components: 5x Rapid Extract Buffer A  
10x Rapid Extract Buffer B

### 1.2 Company Details

Manufacturer/Supplier:

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

Telephone: +44 (0) 203 930 8101  
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Further information obtainable from:

Technical Services  
Details as above

### 1.3 Emergency Details



24-hour contact in case of emergency:



PCR Biosystems Ltd.  
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## 2. Hazards identification

| Product name                | Directive 1999/45/EC  | GHS Directive 1272/2008/EC  |
|-----------------------------|---|---|
| Buffer B                    | IRRITANT<br><br>R36/37/38<br>R42 | DANGER<br><br>H315 – Skin Irrit. 2<br>H319 – Eye Irrit. 2<br>H334 – Resp. Sens. 1<br>H335 – STOT SE 3 |
| 2x PCRBIO HS<br>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

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

H335



**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**



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· **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.