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:

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Component names:

qPCRBIO SyGreen Mix Lo-ROX
qPCRBIO SyGreen Mix Lo-ROX  5000rxns
qPCRBIO SyGreen Mix Hi-ROX
qPCRBIO SyGreen Mix Hi-ROX  5000rxns
qPCRBIO SyGreen Mix Fluorescein
qPCRBIO Probe Mix Lo-ROX
qPCRBIO Probe Mix Lo-ROX  5000rxns
qPCRBIO Probe Mix Hi-ROX
qPCRBIO Probe Mix Hi-ROX  5000rxns
UDGase (2u/ul)  500 units
20x RTase
qPCR SyGreen One-Step Lo-ROX
qPCR SyGreen One-Step Lo-ROX  5000rxns
qPCR SyGreen One-Step Hi-ROX
qPCR Probe One-Step Lo-ROX
qPCR Probe One-Step Lo-ROX
qPCR Probe One-Step Hi-ROX
qPCR Probe One-Step No-ROX

qPCR Probe No-ROX
qPCR Probe No-ROX  5000 rxns
qPCRBIO HRM Mix
qPCRBIO Genotyping Mix No-ROX
qPCRBIO Genotyping Mix Lo-ROX
qPCRBIO Genotyping Mix Hi-ROX
qPCRBIO SyGreen Mix No-ROX
qPCRBIO SyGreen Mix No-ROX  5000rxns
2x qPCRBIO SyGreen Blue Mix No-ROX
2x qPCRBIO SyGreen Blue Mix No-ROX  5000rxns
2x qPCRBIO SyGreen Blue Mix Hi-ROX
2x qPCRBIO SyGreen Blue Mix Hi-ROX  5000rxns
2x qPCRBIO SyGreen Blue Mix Lo-ROX
2x qPCRBIO SyGreen Blue Mix Lo-ROX
20x dUTP UDGase

1.2 Company Details

Manufacturer/Supplier:
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
Email: info@pcrbio.com

Further information obtainable from:

Technical Services
Details as above

2. Hazards identification

· 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
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 cleanup:**
  - 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
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 1
  WEL () Short-term value: 20 mg/m³
  Long-term value: 10 mg/m³
  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.

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.
1. Material Safety Data Sheet

2. Danger of explosion: Product does not present an explosion hazard.

3. Explosion limits:
   - Lower: 1.8 Vol %
   - Upper: 63.0 Vol %

4. Vapour pressure at 20°C: 23 hPa

5. Density: Not determined


7. Vapour density: Not determined.

8. Evaporation rate: Not determined.

9. 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 %

10. Stability and reactivity

   - Reactivity
   - Chemical stability
   - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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.

12. Ecological information

   - Toxicity
   - Aquatic toxicity: No further relevant information available.

MATERIAL SAFETY DATA SHEET Version 2.4 Valid From 13/02/2020
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.