SAFETY DATA SHEET
SQK-RPB004 Rapid PCR Barcoding Kit

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name SQK-RPB004 Rapid PCR Barcoding Kit

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory reagent.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Oxford Nanopore Technologies Ltd.
Gosling Building,
Edmund Halley Road,
Oxford Science Park,
Oxford,
OX4 4DQ,
UK
T: +44 (0) 845 034 7900
F: +44 (0) 845 034 7901
E: support@nanoporetech.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 845 034 7900 (Mon - Fri 09:00 - 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Important Notes This product is considered to be a small package and is labelled according to the relevant provisions of the legislation.

Hazard statements NC Not Classified

Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Supplemental label information EUH210 Safety data sheet available on request.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.
**SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Composition comments</th>
<th>CAS number: 56-81-5</th>
<th>EC number: 200-289-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>This kit contains the following components:</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Rapid 1D Adapter 10μl</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sequencing Buffer 300μl</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sequencing Tether 10μl</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rapid Barcode Primers 1 to 12 10μl x 12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Loading Beads 360μl</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**

Not Classified

The full text for all hazard statements is displayed in Section 16.

### Composition comments

This kit contains the following components:
- Rapid 1D Adapter 10μl
- Sequencing Buffer 300μl
- Sequencing Tether 10μl
- Rapid Barcode Primers 1 to 12 10μl x 12
- Loading Beads 360μl

**SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**General information**

None of the components are considered to be a significant hazard due to their small quantity. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

**Ingestion**

Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person.

**Skin contact**

Remove affected person from source of contamination. Rinse immediately with plenty of water.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders**

First aid personnel should wear appropriate protective equipment during any rescue.

### 4.2. Most important symptoms and effects, both acute and delayed

**General information**

None of the components are considered to be a significant hazard due to their small quantity. See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion**

Gastrointestinal symptoms, including upset stomach.

**Skin contact**

Prolonged contact may cause dryness of the skin.

**Eye contact**

May cause temporary eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor**

Treat symptomatically.
Specific treatments

No special treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

None of the components are considered to be a significant hazard due to their small quantity. Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions

Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

For all components:
Wear protective clothing as described in Section 8 of this safety data sheet. Reuse or recycle products wherever possible. Wipe up with an absorbent cloth and dispose of waste safely. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use.
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**Advice on general occupational hygiene**
Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions**
Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Protect from direct sunlight. Store at temperatures not exceeding 4°C.

**Storage class**
Unspecified storage.

**7.3. Specific end use(s)**
The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits**

**Glycerol**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

WEL = Workplace Exposure Limit

#### 8.2. Exposure controls

**Protective equipment**

Appropriate engineering controls
Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Chemical splash goggles.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection
Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures
Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure
controls

Not regarded as dangerous for the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Product comments
This product is a kit consisting of a series of vials. All of the components have the following physical properties:

Appearance
Liquid.

Colour
Colourless.

Odour
Odourless.

Odour threshold
Not available.

pH
Not available.

Melting point
~0°C @ 760 mm Hg

Initial boiling point and range
~100°C @ 760 mm Hg

Flash point
Not available.

Evaporation rate
Not available.

Upper/lower flammability or explosive limits
Not available.

Vapour pressure
Not available.

Vapour density
Not available.

Relative density
Not available.

Solubility(ies)
Soluble in water.

Partition coefficient
Not available.

Auto-ignition temperature
Not available.

Decomposition Temperature
Not available.

Viscosity
Not applicable.

Explosive properties
Not considered to be explosive.

Oxidising properties
Does not meet the criteria for classification as oxidising.

9.2. Other information

No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity
See the other subsections of this section for further details.

10.2. Chemical stability

Stability
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions
## Possibility of hazardous reactions

No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid**

Avoid heat. Protect from direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products**

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects**

Not regarded as a health hazard under current legislation. None of the components of this kit are regarded as a health hazard under current legislation.

**Acute toxicity - oral**

**Notes (oral LD₅₀)**

Based on available data the classification criteria are not met.

**Acute toxicity - dermal**

**Notes (dermal LD₅₀)**

Based on available data the classification criteria are not met.

**Acute toxicity - inhalation**

**Notes (inhalation LC₅₀)**

Based on available data the classification criteria are not met.

**Skin corrosion/irritation**

**Animal data**

Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

**Serious eye damage/irritation**

Based on available data the classification criteria are not met.

**Respiratory sensitisation**

**Respiratory sensitisation**

Based on available data the classification criteria are not met.

**Skin sensitisation**

**Skin sensitisation**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

**Genotoxicity - in vitro**

Based on available data the classification criteria are not met.

**Carcinogenicity**

**Carcinogenicity**

Based on available data the classification criteria are not met.

**IARC carcinogenicity**

None of the ingredients are listed or exempt.

**Reproductive toxicity**

**Reproductive toxicity - fertility**

Based on available data the classification criteria are not met.

**Reproductive toxicity - development**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

**STOT - single exposure**

Not classified as a specific target organ toxicant after a single exposure.

**Specific target organ toxicity - repeated exposure**
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STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard Based on available data the classification criteria are not met.

General information No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact May cause temporary eye irritation.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs No specific target organs known.

SECTION 12: Ecological Information

Ecotoxicity None of the components are considered to be a significant hazard due to their small quantity.

12.1. Toxicity Based on available data the classification criteria are not met.

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.
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Disposal methods
Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

SECTION 14: Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations
Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information
SQK-RPB004 Rapid PCR Barcoding Kit

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50 % of a test population (Median Lethal Dose).
EC₅₀: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

General Information
This product is considered to be a small package and is labelled according to the relevant provisions of the legislation.

Key literature references and sources for data

Training advice
Read and follow manufacturer's recommendations. Only trained personnel should use this material.

Revision comments
This is the first issue.

Revision date
01/02/2018

SDS number
6935

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.