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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 PRODUCT IDENTIFIER**

Trade name: **BIOTOOLS DNA MARKERS:**

- **PhiX174/Hinfl**
- **pBR322 DNA/βsuRI (HaeIII) Marker**
- **1Kb**
- **100bp**
- **Lambda DNA/HindIII Marker**

Product Number: 31.001 – 31.003 – 31.005 – 31.006 – 31.011

Chemical Name: Not Applicable

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST.**

**Relevant identified uses: For research use only. Not for use in diagnostic procedures.**

**Uses advised against: Not for consumer use**

**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET.**

**Manufacturer / Supplier**

Company: Biotools, B & M Labs, S.A.

Valle de Tobalina – 52 – Nave 39

28021 Madrid

SPAIN

Tel: +34 91 710 00 74

Fax: +34 91 505 31 18

**1.4 EMERGENCY NUMBER**

Please contact Biotools distributor in your country. Spain only: 91 562 04 20

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**2. HAZARDS IDENTIFICATION**

**2.1 CLASSIFICATION OF THE MIXTURE**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

**2.2 LABEL ELEMENTS**

**Label elements**

**Hazard pictograms**

None

**Signal Word**

None

**Hazard Statements**

Not Applicable

**EU Specific Hazard Statements**

Not Applicable

**Precautionary Statements**

**Prevention**

Not Applicable

**Response**

Not Applicable

**Storage**

Not Applicable

**Disposal**

Not Applicable

**2.3 OTHER HAZARDS**

None known

**3.COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS**

**3.1 SUBSTANCE**

Not applicable

**3.2 MIXTURE**

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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**4. FIRST AID MEASURES**

**4.1 DESCRIPTION OF FIRST AID MEASURES**

**Skin contact**

Wash skin with water and soap and rinse thoroughly. Immediate medical attention is not required.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion**

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

**Inhalation**

Not expected to be an inhalation hazard under anticipated conditions of normal use. Consult a physician if necessary.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

No information available

**4.3 INDICATION OF ANY IMMEDIATE ATTENTION AND SPECIAL TREATMENT NEEDED**

No information available

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**5. FIRE FIGHTING MEASURES**

**5.1 EXTINGUISHING MEDIA**

**Suitable extinguishing media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical

**Unsuitable extinguishing media**

Not known

## 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Nature of decomposition products not known.

## 5.3 ADVICE FOR FIREFIGHTERS

### Special protective equipment for firefighters

In the event of fire wear self-contained breathing apparatus. Standard procedure for chemical fires.

### Further information

No data available

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

#### Advice for non-emergency personnel:

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information.

#### Advice for emergency responders:

Protective equipment see section 8.

### 6.2 ENVIRONMENTAL PRECAUTIONS

No special environmental precautions required.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Soak up with inert absorbent material.

### 6.4 REFERENCE TO OTHER SECTIONS

See section 8 for more information.

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## 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

#### Hygiene measures

Use personal protective equipment as required. No special handling advices are necessary

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### Storage conditions:

Tightly closed. Keep in properly labelled containers.

Recommended storage temperature see product label

### 7.3 SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

### 8.2 EXPOSURE CONTROLS

None

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

**Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

*Eye/face protection*

Tightly fitting safety goggles

Use equipment for eye protection tested and approved under appropriate government standards

*Hand protection*

full contact:

Glove material: butyl-rubber  
Glove thickness: 0,7 mm  
Break through time: > 480 min

splash contact:

Glove material:butyl-rubber  
Glove thickness:0,7 mm  
Break through time:> 480 min

*Other protective equipment*

protective clothing

*Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Environmental exposure controls**

No special environmental precautions required.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

**Form:** Liquid

**Colour:** Colorless

**Odour:** Odorless

**Boiling point:** no data available.

**Flash point:** no data available

**Explosive properties:** no data available

**Vapor pressure:** no data available

**pH:** no data available

**9.2 OTHER DATA**

No information available

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**10. STABILITY AND REACTIVITY****10.1 REACTIVITY**

No data available

**10.2 CHEMICAL STABILITY**

Stable under normal handling and storage conditions

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS**

No data available

**10.4 CONDITIONS TO AVOID**

No data available

**10.5 INCOMPATIBLE MATERIALS**

No dangerous reaction known under conditions of normal use

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS**

No data available

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**11. TOXICOLOGICAL INFORMATION**

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

No data available

**11.2 FURTHER INFORMATION**

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Handle in accordance with good industrial hygiene and safety practice

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**12. ECOLOGICAL INFORMATION**

**12.1 TOXICITY**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**12.2 PERSISTENCE AND DEGRADABILITY**

No data available

**12.3 BIOACCUMULATIVE POTENTIAL**

No data available

**12.4 MOBILITY IN SOIL**

No information available.

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT**

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

**12.6 OTHER ADVERSE EFFECTS**

No data available

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**13. DISPOSAL CONSIDERATIONS**

Controlled disposal in waste system. Product disposal (leftovers or residues resulting from normal use) does not pose any serious hazards in the adequate proportion.

The product and packaging should be disposed of in accordance with the instructions of the local authorities.

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**14. TRANSPORT INFORMATION**

**14.1 UN number**

ADR/RID: - IMDG: - IATA: -

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**14.6 Special precautions for user**

**Further information**

Not classified as dangerous in the meaning of transport regulations.

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**15. REGULATORY INFORMATION**

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**15.2 CHEMICAL SAFETY ASSESSMENT**

For this product a chemical safety assessment was not carried out.

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**16. OTHER INFORMATION**

**Training advice**

Provide adequate information, instruction and training for operators.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge, and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biotools, B & M Labs, S.A. shall not be held liable for any damage resulting from handling or from contact with the above product.

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