



## **MATERIAL SAFETY DATA SHEET**

According to EU Directive 91/155 EC

Reviewed on: 15/10/08

### **1. Chemical product and company identification**

#### **Product details**

**Trade name:** BioTherm DNA Polymerase (supplied with 10 x reaction buffer)

**Catalogue number:**

GC-002-0100	100 units
GC-002-0250	250 units
GC-002-0500	500 units
GC-002-1000	1000 units
GC-002-5000	5000 units

#### **Manufacturer / Supplier:**

Semiramis Genetics Limited  
GeneCraft Products  
Manchester Science Park  
Unit 57 Greenheys  
Pencroft Way, Hulme  
Manchester M15 6JJ  
Tel.: +44 (0) 161 226 3571 / Fax: +44 (0) 161 868 0708

**Further information obtainable from:** Details as above

### **2. Composition / Information on ingredients**

#### **Chemical characterisation**

**Description:** Mixture of substances listed below with non-hazardous additions

**Dangerous components:** None

<b>Composition</b>	<b>%</b>	<b>CAS #</b>
Taq DNA polymerase	<1%	NA
Glycerol	50%	56-81-5
Potassium phosphate	<1%	NA
Sodium chloride (NaCl)	<1%	7647-14-5
EDTA	<1%	6381-92-6
Dithiothreitol (DTT)	<1%	3483-12-3
Polysorbate 20 (Tween 20)	<1%	9005-64-5

## 10 x reaction buffer

Composition	%	CAS #
Ammonium sulfate (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	<1%	82168-61-4
Tris-HCl	<1%	1185-53-1
MgCl <sub>2</sub>	<1%	7786-30-3
Tween 20	<1%	9005-64-5

### 3. Hazards identification

**Hazard description:** Not applicable

**Information concerning particular hazards for human and environment:** Not applicable

**Classification system:** The classification is according to the latest editions of the EU-lists and extended by company and literature data.

### 4. 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. Wash with soap and copious amounts of water.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.

**After swallowing:** Wash mouth out with water. If symptoms persist consult doctor immediately.

### 5. Fire fighting measures

**Suitable extinguishing media:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** No special measures required

### 6. Accidental release measures

**Person-related safety precautions:** Ensure adequate ventilation.

**Measures for environmental protection:** In case material is released or spilled absorb with a cloth. Do not allow product to reach sewage system or any water course.

**Additional information:** No dangerous substances are released.

### 7. Handling and storage

**Handling:** No special measures are required for safe handling of this product.

**Storage:** No special storage requirements for this product. No special measures for fire and explosive protection required. Store at -20°C.

### 8. Exposure controls / Personal protection

**Engineering controls:** Not required, see section 7.

**Eye protection:** Wearing safety goggles is advised.

**Skin protection:** Gloves should be worn, either rubber or chemical resistant.

**Respiratory protection:** None required

**Hygiene practices:** Avoid contact with skin or eyes. Do not place in mouth. Do not eat, drink or smoke when handling this product. Upon completion of the use of this product, dispose of protective gloves safely and wash hands thoroughly with soap and water.

## **9. Physical and chemical properties**

**Appearance:** Liquid, colourless, odourless

**Concentration:** 5 units/ $\mu$ l, pH: 7.0

**Melting point/Melting range:** Undetermined

**Boiling point/Boiling range:** Undetermined

**Flash point:** Not applicable

**Self-igniting:** Product is not self igniting

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

**Density:** Not determined

**Solubility in/Miscibility with water:** Fully miscible

## **10. Stability and reactivity**

**Stability:** Stable

**Dangerous reactions:** No dangerous reactions

**Dangerous composition products:** No dangerous decomposition products

## **11. Toxicological information**

**Primary irritation effect**

**On the skin:** No irritation effect

**On the eye:** No irritation effect

**Sensitization:** No sensitizing effect

## **12. Ecological Information**

**General note:** Do not allow undiluted product for large quantities of it to reach ground water; water course or sewage system.

## **13. Disposal Considerations**

Dispose of unused product, spilled material and waste in accordance with all applicable state, local and provincial environmental and hazardous waste regulations.

## **14. Transport Information**

**Land transport:** Product does not belong to a hazard class of any international agreements on the transport and packaging of dangerous goods.

**Maritime transport:** This product is not a marine pollutant.

**Air transport:** Product does not belong to any hazard classification.

## **15. Regulatory Information**

### **Labelling according to EU Guidelines:**

General safety regulations should always be observed when handling chemicals.

This product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.

## **16. Other Information**

All information, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets as new information becomes available.