

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product code** PC018, PC019  
**Product name** UltraHiPF™ DNA Polymerase Kit

**Contact manufacturer**

**GeneCopoeia Inc.**

9620 Medical Center Drive, Suite 101  
Rockville, MD 20850  
USA

Phone: 301-762-0888

Fax: 301-762-3888

2. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous/Non-hazardous Components**

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

3. HAZARDS IDENTIFICATION

**Emergency overview** not applicable

**Information pertaining to particular dangers for man and environment** not applicable

**Classification system**

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

4. FIRST AID MEASURES

**General information** No special measures required.  
**After inhalation** Supply fresh air; consult doctor in case of complaints.  
**After skin contact** Rinse with plenty of water. Generally, the product does not irritate the skin.  
**After eye contact** Rinse opened eye for several minutes under running water.  
**After swallowing** Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing 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** Not required

**Measures for environmental protection** Dilute with plenty of water.

### Measures for cleaning/collecting

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

## 7. HANDLING AND STORAGE

### Handling

#### Information for safe handling

No special measures required.

No special precautions are necessary if used correctly.

**Information about protection against explosions and fires** No special measures required.

### 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Additional information about design of technical systems** No further data; see item 7.

**Components with limit values that require monitoring at the workplace** Not required.

**Additional information** The lists that were valid during the creation were used as basis.

### Personal protective equipment

#### General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

**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

### General information

**Form** liquid  
**Color** Colorless  
**Odor** No data available

### Change in condition

**Melting point/melting range** °C Mixture has not been tested  
**Boiling point/boiling range** °C Mixture has not been tested

**Flash point** °C Mixture has not been tested

**Danger of explosion** Do not present an explosion hazard.

**Vapor pressure at 20°C** Mixture has not been tested

**Density at 20°C** Mixture has not been tested

**Solubility in / Miscibility with Water** Fully miscible

**pH-value at 20°C** 8.6  
**Organic solvents** 25%  
**Water** 75%

## 10. STABILITY AND REACTIVITY

### Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

### Materials to be avoided

**Dangerous reactions** No dangerous reactions known

**Dangerous products of decomposition** No dangerous decomposition products known

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Primary irritant effect

**On the skin** No irritant effect.  
**On the eye** No irritant effect.

**Sensitization** No sensitizing effects known.

**Target organs** Not applicable.

## 12. ECOLOGICAL INFORMATION

Generally not hazardous for water.

### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

### 14. TRANSPORT INFORMATION

#### IATA

<b>Proper shipping name</b>	Not classified as dangerous in the meaning of transport regulations
<b>Hazard Class</b>	No information available
<b>Subsidiary Class</b>	No information available
<b>Packing group</b>	No information available
<b>UN-No</b>	UN 1845

### 15. REGULATORY INFORMATION

#### **UNITED STATES:**

TSCA:

This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. It may only be handled by technically qualified individuals.

Prop 65 Listed Chemicals: No Prop 65 Chemicals.

No 313 Chemicals

#### **CANADA:**

**DSL/NDSL:** Not determined.

**COMPONENT DIMETHYL SULFOXIDE**

**WHMIS Classification** D2B

#### **EUROPEAN UNION:**

**PRODUCT RISK PHRASES:** None assigned.

**PRODUCT SAFETY PHRASES:** Not applicable.

**PRODUCT CLASSIFICATION:** Not classified

**COMPONENT DIMETHYL SULFOXIDE**

**EINECS NUMBER** 200-664-3

### 16. OTHER INFORMATION

#### **Abbreviations**

N/A - Data is not applicable or not available

SARA - Superfund and Reauthorization Act

HMIS - Hazard Material Information System

WHMIS - Workplace Hazard Materials Information System

NTP - National Toxicology Program

OSHA - Occupational Health and Safety Administration

IARC - International Agency for Research on Cancer

PROP 65 - California Safe Drinking Water and Toxic Enforcement Act of 1986

EINECS - European Inventory of Existing Commercial Chemical Substances

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since Invitrogen Corporation cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

**End of Safety Data Sheet**

