



# SAFETY DATA SHEET

Revision Date **15-May-2012**

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

**Product Name** Taq DNA Polymerase

**Recommended Use** For research use only  
**Registration Number** No information available

### 1.1 Product Identifier

**Catalog Number:** EPTQA325

**Supplier:** MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

**Emergency Telephone Number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

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

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

### GHS Label elements, including precautionary statements

**Physical Hazards** None

**Not Hazardous** Not classified

**NFPA rating:**  
NFPA Health: 0  
NFPA Flammability: 0  
NFPA Reactivity: 0  
NFPA Special Note: -

### Precautionary Statements

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms: None

Chemical Name	EEC No.	CAS Number	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
Glycerol	EEC No. 200-289-5	56-81-5	50	-		No data available
Water, Ultra-pure	EEC No. 231-791-2	7732-18-5	47.982	-		No data available
Potassium Chloride	EEC No. 231-211-8	7447-40-7	0.7	-		No data available
Tween® 20	-	9005-64-5	0.5	-		No data available
Nonidet P40	-	9036-19-5	0.5	Xi		No data available
Tris Hydrochloride	EEC No. 214-684-5	1185-53-1	0.3	Xi		No data available
DL-Dithiothreitol	EEC No. 248-531-9	27565-41-9	0.015	Xi		No data available
Ethylenediamine Tetraacetic Acid	EEC No. 200-449-4	60-00-4	0.003	Xi; R36	GHS07 (Wng) H319	No data available
Taq DNA Polymerase	Not Listed		0 - 10%	-		No data available

For the full text of the R phrases and H statements mentioned in this section, see Section 2

## 4. FIRST AID MEASURES

### 4.1 Description of first-aid measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water.

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

**Main Symptoms** No information available

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

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Extinguishing media which must not be used for safety reasons

No information available

### 5.2 Special hazards arising from the substance or mixture

No information available.

### 5.3 Advice for firefighters

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

See Section 12 for additional information.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and materials for containment and cleaning up

No information available.

### 6.4 Reference to other sections

See Section 12 for additional information

## 7. HANDLING AND STORAGE

### Storage

-20°C

### 7.1 Precautions for safe handling

Ensure adequate ventilation.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place

### 7.3 Specific end uses

#### Exposure Scenario

No information available

#### Other Guidelines

No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure Limits

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Glycerol		TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Glycerol		TWA: 10 mg/m <sup>3</sup> VLE- MP		TWA: 20 mg/m <sup>3</sup>	

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Glycerol		TWA: 50 mg/m <sup>3</sup> STEL: 100 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> NDS		TWA: 10 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

## 8.2 Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### **Personal Protective Equipment**

**Eye Protection** Tightly fitting safety goggles

**Skin and Body Protection** Long sleeved clothing

**Hand Protection** Protective gloves

**Respiratory Protection** No special protective equipment required.

**Environmental Exposure Controls** No information available.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

**Physical State** Liquid.

#### **Physical Property Data**

<b>pH Value</b>	No data available
<b>Flash Point</b>	No information available
<b>Autoignition Temperature</b>	No data available
<b>Melting/Freezing Point</b>	
<b>Boiling Point (°C)</b>	No information available.
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No information available
<b>Water Solubility</b>	No data available
<b>Evaporation Rate</b>	No data available.
<b>Flammability (solid, gas)</b>	No data available
<b>Flammability Limits in Air</b>	
<b>upper flammability limit</b>	No data available
<b>lower flammability limit</b>	No data available
<b>Density</b>	No data available
<b>Specific Gravity</b>	No data available.
<b>Decomposition Temperature</b>	No data available
<b>Viscosity, Kinematic</b>	No data available.
<b>Viscosity, Dynamic</b>	No data available.
<b>Explosive Properties</b>	No information available.
<b>Oxidizing Properties</b>	No information available
<b>VOC Content (%)</b>	No information available

### 9.2 Other Safety Information

Other Safety Information

## **10. STABILITY AND REACTIVITY**

### 10.1 Reactivity

No data available

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### **10.3**

#### **Possibility of hazardous reactions**

None under normal processing.

#### **10.4 Conditions to avoid**

None in particular

#### **10.5 Incompatible Materials**

None in particular

#### **10.6 Hazardous Decomposition Products**

None under normal processing.

## **11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

**Acute Toxicity** Product does not present an acute toxicity hazard based on known or supplied information

**Inhalation** No information available.

**Eye Irritation** No information available.

**Acute toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity

<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Glycerol 56-81-5	12600 mg/kg ( Rat )	21900 mg/kg (Rat)	
Water, Ultra-pure 7732-18-5	90 mL/kg ( Rat )		
Potassium Chloride 7447-40-7	2600 mg/kg ( Rat )		
Tween® 20 9005-64-5	36700 µL/kg ( Rat )		
Nonidet P40 9036-19-5	4190 mg/kg ( Rat )		
Ethylenediamine Tetraacetic Acid 60-00-4	1700 mg/kg ( Rat )		

**Mutagenic Effects** Contains no ingredient listed as a mutagen.

**Carcinogenic Effects** None known.

**Reproductive Toxicity** None known

**Developmental Toxicity** None known.

**Aspiration hazard** None known

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

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

Chemical Name	Ecotoxicity - Freshwater Algae - Acute Toxicity Data	Ecotoxicity - Freshwater Fish - Acute Toxicity Data	Ecotoxicity - Water Flea - Acute Toxicity Data
Glycerol 56-81-5		LC50 (96 h) 51 - 57mL/L (Oncorhynchus mykiss) static	
Potassium Chloride 7447-40-7		LC50 (96 h) 1060mg/L (Lepomis macrochirus) static LC50 (96 h) 750 - 1020mg/L (Pimephales promelas) static	
Ethylenediamine Tetraacetic Acid 60-00-4	EC50 (72 h) 1.01 mg/L (Desmodesmus subspicatus)	LC50 (96 h) 44.2 - 76.5mg/L (Pimephales promelas) static LC50 (96 h) 34 - 62mg/L (Lepomis macrochirus) static	EC50 (48 h) 113 mg/L

### 12.2 Persistence and degradability

No data is available on the product itself

### 12.3 Bioaccumulative potential

No information available

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Nonidet P40	Group III Chemical		

## 13. DISPOSAL CONSIDERATIONS

**Waste from Residues/Unused Products** Dispose of in accordance with local regulations

**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**IMDG/IMO** Not regulated

**ICAO** Not regulated

## 14. TRANSPORT INFORMATION

ICAO/IATA Not regulated

DOT Not regulated

TDG Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

Chemical Name	TSCA	EINECS / ELINCS	DSL / NDSL	PICCS	ENCS	IECSC	AICS	KECL
Glycerol	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Water, Ultra-pure	Listed	Listed	Listed	Listed		Listed	Listed	Listed
Potassium Chloride	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Tween® 20	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Nonidet P40	Listed		Listed	Listed	Listed	Listed	Listed	Listed
Tris Hydrochloride	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
DL-Dithiothreitol		Listed	Listed	Listed				
Ethylenediamine Tetraacetic Acid	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances / EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippine Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

## 16. OTHER INFORMATION

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

**End of Material Safety Data Sheet**

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)