

# SAFETY DATA SHEET



Taq2000 DNA Polymerase, Part Number 600195

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

### 1.1 Product identifier

**Product name** : Taq2000 DNA Polymerase, Part Number 600195  
**Part No. (Kit)** : 600195  
**Part No.** : Taq2000 DNA Polymerase 600195-51  
10X Taq Polymerase Buffer 600131-82

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

#### Identified uses

Analytical reagent.	
Taq2000 DNA Polymerase	20 µl (100 U 5 U/µl)
10X Taq Polymerase Buffer	1 ml

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Taq2000 DNA Polymerase Mixture  
10X Taq Polymerase Buffer Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

**Ingredients of unknown toxicity** : Taq2000 DNA Polymerase Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%  
10X Taq Polymerase Buffer Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%  
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%  
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%

**Ingredients of unknown ecotoxicity** : 10X Taq Polymerase Buffer Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%

See Section 16 for the full text of the H statements declared above.

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## SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

<b>Signal word</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No signal word. No signal word.
<b>Hazard statements</b>	:  Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.
<b>Response</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.
<b>Storage</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.
<b>Disposal</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.
<b>Hazardous ingredients</b>	:  Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.
<b>Supplemental label elements</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Safety data sheet available on request.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.

### 2.3 Other hazards

<b>Other hazards which do not result in classification</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	None known. None known.
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## SECTION 3: Composition/information on ingredients

**3.1 Substances** : Taq2000 DNA Polymerase Mixture  
10X Taq Polymerase Buffer Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Taq2000 DNA Polymerase				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Poly(oxy-1,2-ethanediyl), .alpha.-[ (1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	CAS: 9036-19-5	<1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1] [5]
<b>10X Taq Polymerase Buffer</b>				
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335  <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

There are no additional 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.

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: Taq2000 DNA Polymerase  10X Taq Polymerase Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: Taq2000 DNA Polymerase  10X Taq Polymerase Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	: Taq2000 DNA Polymerase  10X Taq Polymerase Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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## SECTION 4: First aid measures

<b>Ingestion</b>	: Taq2000 DNA Polymerase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	10X Taq Polymerase Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

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

#### Potential acute health effects

<b>Eye contact</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
<b>Inhalation</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
<b>Skin contact</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
<b>Ingestion</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.

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

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## SECTION 4: First aid measures

<b>Notes to physician</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Specific treatments</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific treatment. No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	None known. None known.

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

<b>Hazards from the substance or mixture</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: Taq2000 DNA Polymerase  10X Taq Polymerase Buffer	Decomposition products may include the following materials:  carbon dioxide carbon monoxide Decomposition products may include the following materials:  carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: Taq2000 DNA Polymerase  10X Taq Polymerase Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Taq2000 DNA Polymerase  10X Taq Polymerase Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: Taq2000 DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	10X Taq Polymerase Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: Taq2000 DNA Polymerase	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	10X Taq Polymerase Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Taq2000 DNA Polymerase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X Taq Polymerase Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

<b>Methods for cleaning up</b>	: Taq2000 DNA Polymerase	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	10X Taq Polymerase Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: Taq2000 DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	10X Taq Polymerase Buffer	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: Taq2000 DNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	10X Taq Polymerase	Eating, drinking and smoking should be prohibited in areas

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## SECTION 7: Handling and storage

Buffer	where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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### 7.2 Conditions for safe storage, including any incompatibilities

<b>Storage</b>	: Taq2000 DNA Polymerase	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	10X Taq Polymerase Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

<b>Recommendations</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Taq2000 DNA Polymerase Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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## SECTION 8: Exposure controls/personal protection

### DNELs/DMELs

No DNELs/DMELs available.

### PNECs

No PNECs available

## 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Taq2000 DNA Polymerase	Liquid.
	: 10X Taq Polymerase Buffer	Liquid.
<b>Colour</b>	: Taq2000 DNA Polymerase	Not available.
	: 10X Taq Polymerase Buffer	Not available.
<b>Odour</b>	: Taq2000 DNA Polymerase	Not available.
	: 10X Taq Polymerase Buffer	Not available.



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## SECTION 9: Physical and chemical properties

<b>Odour threshold</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>pH</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	8 8.8
<b>Melting point/freezing point</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Initial boiling point and boiling range</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Flash point</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Evaporation rate</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Flammability (solid, gas)</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not applicable. Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Vapour pressure</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Vapour density</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Relative density</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Solubility(ies)</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Auto-ignition temperature</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.

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## SECTION 9: Physical and chemical properties

<b>Decomposition temperature</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Viscosity</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Explosive properties</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.
<b>Oxidising properties</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Taq2000 DNA Polymerase Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	LD50 Oral	Rat	2800 mg/kg	-

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Taq2000 DNA Polymerase Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1%	-

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
10X Taq Polymerase Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Taq2000 DNA Polymerase Routes of entry anticipated: Oral, Dermal, Inhalation.  
10X Taq Polymerase Buffer Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

**Inhalation** : Taq2000 DNA Polymerase No known significant effects or critical hazards.  
10X Taq Polymerase Buffer No known significant effects or critical hazards.

**Ingestion** : Taq2000 DNA Polymerase No known significant effects or critical hazards.  
10X Taq Polymerase Buffer No known significant effects or critical hazards.

**Skin contact** : Taq2000 DNA Polymerase No known significant effects or critical hazards.  
10X Taq Polymerase Buffer No known significant effects or critical hazards.

**Eye contact** : Taq2000 DNA Polymerase No known significant effects or critical hazards.  
10X Taq Polymerase Buffer No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

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## SECTION 11: Toxicological information

<b>Inhalation</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
<b>Ingestion</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
<b>Skin contact</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
<b>Eye contact</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

### Potential chronic health effects

<b>General</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Taq2000 DNA Polymerase Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	Acute EC50 210 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 to 9800 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Taq2000 DNA Polymerase Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	3.77	78.67	low

### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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## SECTION 13: Disposal considerations

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

**ADR/RID / IMDG / IATA** : Not regulated.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Taq2000 DNA Polymerase Poly(oxy-1,2-ethanediyl), .alpha.-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Substance of equivalent concern for environment	Recommended	ED/169/2012	2/10/2014

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Taq2000 DNA Polymerase Not applicable.  
10X Taq Polymerase Buffer Not applicable.

#### Other EU regulations

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

##### Seveso Directive

This product is not controlled under the Seveso Directive.

#### International regulations

##### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

##### Montreal Protocol (Annexes A, B, C, E)

Not listed.

##### Stockholm Convention on Persistent Organic Pollutants

Not listed.

##### Rotterdam Convention on Prior Informed Consent (PIC)

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Taq2000 DNA Polymerase, Part Number 600195

## SECTION 15: Regulatory information

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

### Full text of abbreviated H statements

<b>Taq2000 DNA Polymerase</b> H315 H318 H411	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.
<b>10X Taq Polymerase Buffer</b> H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

### Full text of classifications [CLP/GHS]

**Taq2000 DNA Polymerase, Part Number 600195**

## SECTION 16: Other information

### **Taq2000 DNA Polymerase**

Aquatic Chronic 2, H411  
Eye Dam. 1, H318  
Skin Irrit. 2, H315

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  
SKIN CORROSION/IRRITATION - Category 2

### **10X Taq Polymerase Buffer**

Eye Irrit. 2, H319  
Skin Irrit. 2, H315  
STOT SE 3, H335

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Respiratory tract irritation) - Category 3

**Date of issue/ Date of revision** : 22/05/2017

**Date of previous issue** : 24/12/2015.

**Version** : 2

#### Notice to reader

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.