# SAFETY DATA SHEET

Agilent Technologies

Taq2000 DNA Polymerase, Part Number 600195

1.1 Product identifier			
Product name	: Taq2000 DNA Polymera	ase, Part Number 60	0195
Part no. (chemical kit)	: 600195		
Part no.	: Taq2000 DNA Polymerase	600195-51	
	10X Taq Polymerase Buffer	600131-82	
1.2 Relevant identified us	es of the substance or mixt	ure and uses advis	ed against
Material uses	: Analytical reagent.		
	Taq2000 DNA Polymera 10X Taq Polymerase Bu		20 μl (100 U  5 U/μl) 1 ml
1.3 Details of the supplier	of the safety data sheet		
Agilent Technologies LDA 5500 Lakeside Cheadle R Cheadle, Cheshire, SK8 3 United Kingdom Tel: +44 (0) 345 712 5292	oyal Business Park, GR		
e-mail address of persor responsible for this SDS	n : pdl-msds_author@agile	nt.com	
1.4 Emergency telephone	number		
Emergency telephone number (with hours of	: CHEMTREC®: +(44)-87	70-8200418	

2.1 Classification of the	substance or mixture		
Product definition	: Taq2000 DNA Polymerase	Mixture Mixture	
Taq2000 DNA	g to Regulation (EC) No. 1272/20	<u>)08 [CLP/GHS]</u>	
<b>Polymerase</b> H412	LONG-TERM (CHRONIC) AQUA	FIC HAZARD	Category 3
Ingredients of unknow toxicity	n : <b>F</b> aq2000 DNA Polymerase 10X Taq Polymerase Buffer	unknown acute inhalatic Percentage of the mixtu unknown acute dermal t	re consisting of ingredient(s) of toxicity: 1 - 10% re consisting of ingredient(s) of

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

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

### 2.2 Label elements

### **SECTION 2: Hazards identification**

Signal word	: Taq2000 DNA	No signal word.
	Polymerase 10X Taq Polymerase Buffer	No signal word.
Hazard statements	: Taq2000 DNA Polymerase	H412 - Harmful to aquatic life with long lasting effects.
	10X Taq Polymerase Buffer	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Taq2000 DNA Polymerase	P273 - Avoid release to the environment.
	10X Taq Polymerase Buffer	Not applicable.
Response	: Taq2000 DNA Polymerase	Not applicable.
	10X Taq Polymerase Buffer	Not applicable.
Storage	: Taq2000 DNA Polymerase	Not applicable.
	10X Taq Polymerase Buffer	Not applicable.
Disposal	: Taq2000 DNA Polymerase	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	10X Taq Polymerase Buffer	Not applicable.
Hazardous ingredients	: <b>∲</b> aq2000 DNA Polymerase	Not applicable.
Supplemental label elements	: <b>₽</b> aq2000 DNA Polymerase	Not applicable.
	10X Taq Polymerase Buffer	Not applicable.
Annex XVII - Restrictions on the manufacture,	: Taq2000 DNA Polymerase	Not applicable.
placing on the market and use of certain dangerous substances, mixtures and articles	10X Taq Polymerase Buffer	Not applicable.
Special packaging require	<u>ments</u>	
Tactile warning of danger	: Taq2000 DNA Polymerase	Not applicable.
	10X Taq Polymerase Buffer	Not applicable.
.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in	: Taq2000 DNA Polymerase	None known.
classification	10X Taq Polymerase Buffer	None known.

# **SECTION 3: Composition/information on ingredients**

	2000 DNA Polymerase Taq Polymerase Buffer	Mixture Mixture		
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
<b>F</b> aq2000 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] omegahydroxy-	CAS: 9036-19-5	<1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [5]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Туре

- [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

Eye contact	: 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. Continue to rinse for at least 10 minutes. 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.
Inhalation	: Taq2000 DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to- mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	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. 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.
Skin contact	: Taq2000 DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	10X Taq Polymerase Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Date of issue/Date of revision	: 04/05/2022 Date of previo	us issue : 14/08/2019 Version : 4 2/47

### **SECTION 4: First aid measures**

: 🔽aq2000 DNA	Wash out mouth with water. Remove dentures if any. If
Polymerase	material has been swallowed and the exposed person is
	conscious, give small quantities of water to drink. Stop if the
	exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical
	personnel. If vomiting occurs, the head should be kept low
	so that vomit does not enter the lungs. Get medical
	attention if adverse health effects persist or are severe.
	Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen
	tight clothing such as a collar, tie, belt or waistband.
10X Taq Polymerase Buffer	Wash out mouth with water. 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.
: Taq2000 DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
10X Taq Polymerase Buffer	No action shall be taken involving any personal risk or without suitable training.
	Polymerase 10X Taq Polymerase Buffer : Taq2000 DNA Polymerase 10X Taq Polymerase

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

Potential acute health effe	ects	
Eye contact	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>	
Eye contact	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
Inhalation	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
Skin contact	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.
Ingestion	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific data. No specific data.

### **SECTION 4: First aid measures**

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

Notes to physician	: 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.
Specific treatments	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	No specific treatment. No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	: 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.
Unsuitable extinguishing media	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	None known. None known.

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

or openia nazarus ansing	from the substance of mix	
Hazards from the substance or mixture	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Taq2000 DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	10X Taq Polymerase Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters		
Special precautions for fire-fighters	: 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.
Special protective equipment for fire- fighters	: 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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Taq2000 DNA Polymerase, Part Number 600195

# **SECTION 5: Firefighting measures**

basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, p	oro	tective equipment and en	nergency procedures
For non-emergency personnel	:	Taq2000 DNA Polymerase 10X Taq 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or
		Buffer	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.
For emergency responders	:	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). Water polluting material. May be harmful to the environment if released in large quantities.
		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 f	or	containment and cleaning	g up
Methods for cleaning up	:	r∕aq2000 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. May be harmful to the environment if released. Dispose of spillages under controlled conditions.
		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	:		ncy contact information. tion on appropriate personal protective equipment. nal waste treatment information.

# **SECTION 7: Handling and storage**

7.1 Precautions for safe ha	Indling	
Protective measures	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	<ul> <li>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> </ul>
Advice on general occupational hygiene	: 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 Buffer	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.
7.2 Conditions for safe sto	rage, including any incom	patibilities
Storage	: 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
	10X Taq Polymerase Buffer	before handling or use. 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) Recommendations		Industrial applications. Professional applications
Recommendations	: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific	: 🔽aq2000 DNA	Not available.
solutions	Polymerase 10X Taq Polymerase	Not available.

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredie	ent name	Exposure limit values
Taq2000 DNA Polymerase		
Glycerol		EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
Recommended monitoring procedures	atmosphere or the ventilation protective equi following: Euro assessment of values and me atmospheres - exposure to ch atmospheres - measurement	contains ingredients with exposure limits, personal, workplace r biological monitoring may be required to determine the effectiveness of or other control measures and/or the necessity to use respiratory ipment. Reference should be made to monitoring standards, such as the ropean Standard EN 689 (Workplace atmospheres - Guidance for the of exposure by inhalation to chemical agents for comparison with limit easurement strategy) European Standard EN 14042 (Workplace - Guide for the application and use of procedures for the assessment of hemical and biological agents) European Standard EN 482 (Workplace - General requirements for the performance of procedures for the c of chemical agents) Reference to national guidance documents for the determination of hazardous substances will also be required.
DNELs/DMELs No DNELs/DMELs available.		
<u>PNECs</u> No PNECs available		
8.2 Exposure controls		
Appropriate engineering controls	: Good general contaminants.	ventilation should be sufficient to control worker exposure to airborne
Individual protection measu	ures	
Hygiene measures	eating, smokin Appropriate teo Wash contami	forearms and face thoroughly after handling chemical products, before ng and using the lavatory and at the end of the working period. echniques should be used to remove potentially contaminated clothing. inated clothing before reusing. Ensure that eyewash stations and safety close to the workstation location.
Eye/face protection	assessment in gases or dusts	ar complying with an approved standard should be used when a risk ndicates this is necessary to avoid exposure to liquid splashes, mists, s. If contact is possible, the following protection should be worn, unless ent indicates a higher degree of protection: safety glasses with side-
Skin protection		
Hand protection	worn at all time necessary. Co during use tha noted that the glove manufac	stant, impervious gloves complying with an approved standard should be es when handling chemical products if a risk assessment indicates this is onsidering the parameters specified by the glove manufacturer, check at the gloves are still retaining their protective properties. It should be time to breakthrough for any glove material may be different for different cturers. In the case of mixtures, consisting of several substances, the e of the gloves cannot be accurately estimated.
Body protection		ective equipment for the body should be selected based on the task being d the risks involved and should be approved by a specialist before product.
Other skin protection	: Appropriate for based on the ta	botwear and any additional skin protection measures should be selected task being performed and the risks involved and should be approved by a bre handling this product.
Respiratory protection	: Based on the h appropriate sta	hazard and potential for exposure, select a respirator that meets the andard or certification. Respirators must be used according to a otection program to ensure proper fitting, training, and other important
Data of issue/Data of revision		

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 Version
 : 4

8/17

## **SECTION 8: Exposure controls/personal protection**

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	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**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	Ĩ.,		·						
Physical state	1	Taq2000 DNA	Liqu	uid.					
		Polymerase 10X Taq Polymerase Buffer	Liqu	uid.					
Colour	:	Taq2000 DNA Polymerase	Not	available					
		10X Taq Polymerase Buffer	Not	available					
Odour	:	Taq2000 DNA Polymerase	Not	available					
		10X Taq Polymerase Buffer	Not	available					
Odour threshold	:	Taq2000 DNA Polymerase	Not	available					
		10X Taq Polymerase Buffer	Not	available					
Melting point/freezing point	:	Taq2000 DNA Polymerase	Not	available					
		10X Taq Polymerase Buffer	Not	available					
Initial boiling point and boiling range	;	Taq2000 DNA Polymerase	Not	available					
		10X Taq Polymerase Buffer	Not	available					
Flammability (solid, gas)	:	Taq2000 DNA Polymerase	Not	applicabl	e.				
		10X Taq Polymerase Buffer	Not	applicabl	e.				
Upper/lower flammability or explosive limits	;	Taq2000 DNA Polymerase	Not	available					
		10X Taq Polymerase Buffer	Not	available					
Flash point	;			Closed c	up		Open cup		n cup
		Ingredient name	°C	°F	Met	hod	°C	°F	Method
		Taq2000 DNA Polymerase							
		Edetic acid	>100	>212	DIN 5 <sup>4</sup>	1758			
		Poly(oxy-1,2-ethanediyl), . alpha[	>109.85	>229.7					
		(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-							
Auto-ignition	4	Ingredient name		°C		°F		Metho	bd
temperature		Taq2000 DNA Polymeras	е						
		Glycerol		370		698			
		Edetic acid		>400		>752		VDI 2263	

<sup>9/17</sup> 

# **SECTION 9: Physical and chemical properties**

Decomposition temperature	1	Taq2000 DNA Polymerase	Not	available.				
temperature		10X Taq Polymerase Buffer	Not	available.				
рН	1	Taq2000 DNA Polymerase	8					
		10X Taq Polymerase Buffer	8.8					
Viscosity	:	Taq2000 DNA Polymerase	Not	available.				
		10X Taq Polymerase Buffer	Not	available.				
Solubility(ies)	1	Taq2000 DNA Polymerase	Solu	uble in the	following ma	aterials: col	d water ar	nd hot water.
		10X Taq Polymerase Buffer	Eas wate		in the follow	<i>v</i> ing materia	ls: cold w	ater and hot
Partition coefficient: n- octanol/water	:	<mark>™</mark> aq2000 DNA Polymerase	Not	applicable	Э.			
octanol/water		10X Taq Polymerase Buffer	Not	applicable	Э.			
Vapour pressure	:		Vapour	r Pressure	e at 20°C	Vap	our press	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		Taq2000 DNA Polymerase						
		water	23.8	3.2		92.258	12.3	
		Sorbitan monolaurate, ethoxylated	<1	<0.13				
		10X Taq Polymerase Buffer						
		water	23.8	3.2		92.258	12.3	
		2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
Evaporation rate	:	Taq2000 DNA	Not	available.		·		
		Polymerase 10X Taq Polymerase Buffer	Not	available.				
Relative density	1	Taq2000 DNA Polymerase		available.				
		10X Taq Polymerase Buffer	Not	available.				
Vapour density	:	Taq2000 DNA Polymerase		available.				
		10X Taq Polymerase Buffer	Not	available.				
Oxidising properties	:	Taq2000 DNA Polymerase		available.				
		10X Taq Polymerase Buffer	Not	available.				
Particle characteristics								
Median particle size	-	✓aq2000 DNA Polymerase 10X Taq Polymerase		applicable applicable				
			INUL	applicable	•			
		Buffer						

# **SECTION 9: Physical and chemical properties**

No additional information.

# **SECTION 10: Stability and reactivity**

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

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

**Acute toxicity** 

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

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>Taq2000 DNA Polymerase</b> Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	2800	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observatior
<b>Paq2000 DNA Polymerase</b> Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit	-	1 %	-
alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-					
<u>Sensitiser</u>	·				
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
<b>Carcinogenicity</b>					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<b>Teratogenicity</b>					
Conclusion/Summary	: Not available.				
Specific target organ toxici	<u>ty (single exposure)</u>				
Not available.					
Specific target organ toxici	ty (repeated exposure)				
Not available.	<u>, , , , , , , , , , , , , , , , , , , </u>				
Aspiration hazard					
Not available.					
	: <b>F</b> aq2000 DNA	Routes of entry an	ticipated:	Oral, Dermal, Ir	nhalation.
routes of exposure	Polymerase 10X Taq Polymerase Buffer	Not available.			
Potential acute health effect	<u>ts</u>				
Inhalation	: Taq2000 DNA	No known significa	int effects	or critical haza	rds.
	Polymerase 10X Taq Polymerase Buffer	No known significa	int effects	or critical haza	rds.
Ingestion	: Taq2000 DNA	No known significa	int effects	or critical haza	rds.
	Polymerase 10X Taq Polymerase Buffer	No known significa	int effects	or critical haza	rds.
Skin contact	: Taq2000 DNA	No known significa	int effects	or critical haza	rds.
	Polymerase 10X Taq Polymerase Buffer	No known significa			
Eye contact	: Taq2000 DNA Polymerase	No known significa	int effects	or critical haza	rds.
	10X Taq Polymerase Buffer	No known significa	int effects	or critical haza	rds.
Symptoms related to the ph	nysical, chemical and tox	icological characteri	<u>stics</u>		
Inhalation	: Taq2000 DNA Polymerase	No specific data.			
	10X Taq Polymerase Buffer	No specific data.			
Ingestion	: Taq2000 DNA Polymerase	No specific data.			
	10X Taq Polymerase Buffer	No specific data.			

# **SECTION 11: Toxicological information**

Skin contact	: Taq2000 DNA Polymerase	No specific data.
	10X Taq Polymerase Buffer	No specific data.
Eye contact	: Taq2000 DNA Polymerase	No specific data.
	10X Taq Polymerase Buffer	No specific data.
Delayed and immediate e	effects as well as chronic ef	fects from short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health	<u>effects</u>	
General	: Taq2000 DNA Polymerase	No known significant effects or critical hazards.
	10X Taq Polymerase Buffer	No known significant effects or critical hazards.
Carcinogenicity	: Taq2000 DNA Polymerase	No known significant effects or critical hazards.
	10X Taq Polymerase Buffer	No known significant effects or critical hazards.
Mutagenicity	: Taq2000 DNA Polymerase	No known significant effects or critical hazards.
	10X Taq Polymerase Buffer	No known significant effects or critical hazards.
Reproductive toxicity	: <b>∲∕</b> aq2000 DNA Polymerase	No known significant effects or critical hazards.
	10X Taq Polymerase Buffer	No known significant effects or critical hazards.
	-	

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>Faq2000 DNA Polymerase</b> Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl)	Acute EC50 210 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
phenyl]omegahydroxy-	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 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

# **SECTION 12: Ecological information**

CECTION 12. Ecologi			
Product/ingredient name	LogPow	BCF	Potential
Taq2000 DNA Polymerase Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disp	osal considerations
13.1 Waste treatment met	hods
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	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>
Special precautions	: Dispose of material(s) and residues under controlled conditions. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

**Additional information** 

14/17

### **SECTION 14: Transport information**

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** : Not available. according to IMO instruments

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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

<b>Annex</b>	XIV

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
<b>₽ 7 7 7 7 7 7 7 7 7 7</b>	Substance of equivalent concern for environment	Listed	42	7/3/2017

#### Substances of very high concern

Ingredient name	Intrinsic property	 	Date of revision
<b>Paq2000 DNA Polymerase</b> Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl)phenyl]omega hydroxy-	Substance of equivalent concern for environment	ED/169/2012	7/3/2017

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Label

: Taq2000 DNA Polymerase 10X Tag Polymerase Buffer Not applicable. Not applicable.

### **Other EU regulations**

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants 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**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

# **SECTION 15: Regulatory information**

SECTION 16: Oth	er information
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments might still be required.
Viet Nam	: All components are listed or exempted.
United States	: All components are active or exempted.
Turkey	: Not determined.
Thailand	: Not determined.
Taiwan	: All components are listed or exempted.
Republic of Korea	: Not determined.
Philippines	: All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
Europe	: All components are listed or exempted.
China	: All components are listed or exempted.
Canada	: All components are listed or exempted.
<u>Inventory list</u> Australia	: All components are listed or exempted.
Not listed.	ol on POPs and Heavy Metals

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Taq2000 DNA Polymerase           Aquatic Chronic 3, H412	Calculation method

### Full text of abbreviated H statements

🔽aq2000 DNA Polymerase	
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

<b>F</b> aq2000 DNA Polymerase	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Date of issue/ Date of : 04/05/2022	

### revision

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758
Taq2000 DNA Polymerase, Part Number 600195

# **SECTION 16: Other information**

Date of previous issue: 14/08/2019Version: 4

### Notice to reader

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