

SAFETY DATA SHEET



Paq5000 DNA Polymerase - 500 U, Part Number 600680

Section 1. Identification

Product identifier : Paq5000 DNA Polymerase - 500 U, Part Number 600680
Part no. (chemical kit) : 600680
Part no. : Paq5000 DNA Polymerase 600680-51
 10X Paq5000 DNA Polymerase Buffer 600680-52

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

Identified uses : Analytical reagent.
 Paq5000 DNA Polymerase 0.1 ml (500 U 5.0 U/ µl)
 10X Paq5000 DNA Polymerase Buffer 1 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Paq5000 DNA Polymerase
 H320

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

10X Paq5000 DNA
 Polymerase Buffer

Percentage of the mixture consisting of ingredient(s)
 of unknown hazards to the aquatic environment: 2.5%

GHS label elements

Signal word : Paq5000 DNA Polymerase WARNING
 10X Paq5000 DNA No signal word.
 Polymerase Buffer

Hazard statements : Paq5000 DNA Polymerase H320 - Causes eye irritation.
 10X Paq5000 DNA No known significant effects or critical hazards.
 Polymerase Buffer

Precautionary statements

Prevention : Paq5000 DNA Polymerase Not applicable.
 10X Paq5000 DNA Not applicable.
 Polymerase Buffer

Response : Paq5000 DNA Polymerase P305 + P351 + P338 - IF IN EYES: Rinse cautiously
 with water for several minutes. Remove contact
 lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical
 advice or attention.
 10X Paq5000 DNA Not applicable.
 Polymerase Buffer

Storage : Paq5000 DNA Polymerase Not applicable.
 10X Paq5000 DNA Not applicable.
 Polymerase Buffer

Section 2. Hazard(s) identification

Disposal	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Not applicable. Not applicable.
Supplemental label elements		
Additional warning phrases	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Not applicable. Not applicable.
Other hazards which do not result in classification	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Mixture Mixture
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CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Paq5000 DNA Polymerase		
Glycerol	≥30 - ≤60	56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.



Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures


Eye contact	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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. If irritation persists, get medical attention. 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	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	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. 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.

Section 4. First aid measures


Skin contact	:	 Paq5000 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. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		10X Paq5000 DNA Polymerase Buffer	
Ingestion	:	 Paq5000 DNA Polymerase	Wash out mouth with water. Remove dentures if any. If 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 Paq5000 DNA 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects


Eye contact	:	 Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Causes eye irritation. No known significant effects or critical hazards.
Inhalation	:	Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	:	Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	:	Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	 Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Adverse symptoms may include the following: irritation watering redness No specific data.
Inhalation	:	Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No specific data. No specific data.
Skin contact	:	Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No specific data. No specific data.
Ingestion	:	Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No specific data. No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

Notes to physician	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No specific treatment. No specific treatment.
Protection of first-aiders	:  Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	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. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media


Suitable extinguishing media	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	None known. None known.
Specific hazards arising from the chemical	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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.
Hazardous thermal decomposition products	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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 sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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.

Section 5. Firefighting measures

Special protective equipment for fire-fighters	: Paq5000 DNA Polymerase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10X Paq5000 DNA 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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:  Paq5000 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	10X Paq5000 DNA 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.
For emergency responders	: Paq5000 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 Paq5000 DNA 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".
Environmental precautions	: Paq5000 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 Paq5000 DNA 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).

Methods and material for containment and cleaning up

Methods for cleaning up	: Paq5000 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 Paq5000 DNA 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Paq5000 DNA Polymerase	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.
	10X Paq5000 DNA Polymerase Buffer	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Paq5000 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 Paq5000 DNA 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.


Conditions for safe storage, including any incompatibilities

: Paq5000 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 Paq5000 DNA 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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
 Paq5000 DNA Polymerase Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m ³ 8 hours.

Biological exposure indices

Section 8. Exposure controls and personal protection

No exposure indices known.

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

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.

Section 9. Physical and chemical properties and safety characteristics

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


Appearance

- Physical state** : Paq5000 DNA Polymerase Liquid.
10X Paq5000 DNA Liquid.
Polymerase Buffer
- Colour** : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer
- Odour** : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer
- Odour threshold** : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer
- pH** : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA 10
Polymerase Buffer

Section 9. Physical and chemical properties and safety characteristics

Melting point/freezing point : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer


Boiling point, initial boiling point, and boiling range : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer

Flash point	Ingredient name	Closed cup			Open cup		
		°C	°F	Method	°C	°F	Method
	 Paq5000 DNA Polymerase						
	Glycerol				177	350.6	

Evaporation rate : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer


Flammability : Paq5000 DNA Polymerase Not applicable.
10X Paq5000 DNA Not applicable.
Polymerase Buffer


Lower and upper explosion limit/flammability limit : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer

Vapour pressure	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	 Paq5000 DNA Polymerase						
	water	23.8	3.2		92.258	12.3	
	Glycerol	0.000075	0.00001		0.0025	0.00033	
	10X Paq5000 DNA Polymerase Buffer						
	water	23.8	3.2		92.258	12.3	
	Trometamol	<0.00075006	<0.0001				

Relative vapour density : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer



Relative density : Paq5000 DNA Polymerase Not available.
10X Paq5000 DNA Not available.
Polymerase Buffer

Solubility(ies)	Media	Result
	 Paq5000 DNA Polymerase	
	water	Soluble
	10X Paq5000 DNA Polymerase Buffer	
	water	Soluble

Partition coefficient: n-octanol/water :  Paq5000 DNA Polymerase Not applicable.
10X Paq5000 DNA Not applicable.
Polymerase Buffer

Auto-ignition temperature :

Section 9. Physical and chemical properties and safety characteristics

	Ingredient name	°C	°F	Method
	 Paq5000 DNA Polymerase			
	Glycerol	370	698	
Decomposition temperature	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Not available. Not available.		
Viscosity	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Not available. Not available.		
<u>Particle characteristics</u>				
Median particle size	:  Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	Not applicable. Not applicable.		

Section 10. Stability and reactivity

Reactivity	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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.
Chemical stability	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	The product is stable. The product is stable.
Possibility of hazardous reactions	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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.
Conditions to avoid	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No specific data. No specific data.
Incompatible materials	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
Hazardous decomposition products	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Paq5000 DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Paq5000 DNA Polymerase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Paq5000 DNA Polymerase
10X Paq5000 DNA Polymerase Buffer
Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : Paq5000 DNA Polymerase
10X Paq5000 DNA Polymerase Buffer
Causes eye irritation.
No known significant effects or critical hazards.

Inhalation : Paq5000 DNA Polymerase
10X Paq5000 DNA Polymerase Buffer
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Skin contact : Paq5000 DNA Polymerase
10X Paq5000 DNA Polymerase Buffer
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Ingestion : Paq5000 DNA Polymerase
10X Paq5000 DNA Polymerase Buffer
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Paq5000 DNA Polymerase
10X Paq5000 DNA Polymerase Buffer
Adverse symptoms may include the following:
irritation
watering
redness
No specific data.

Inhalation : Paq5000 DNA Polymerase
10X Paq5000 DNA Polymerase Buffer
No specific data.
No specific data.

Section 11. Toxicological information

Skin contact	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No specific data. No specific data.
Ingestion	: Paq5000 DNA Polymerase 10X Paq5000 DNA 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

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 effects

General	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: Paq5000 DNA Polymerase 10X Paq5000 DNA Polymerase Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

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)
 Paq5000 DNA Polymerase Glycerol	12600	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Paq5000 DNA Polymerase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
Paq5000 DNA Polymerase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Paq5000 DNA Polymerase Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Section 15. Regulatory information

Not listed.

[Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

[Inventory list](#)

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory : Not determined.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Any other relevant information

[History](#)

Date of issue/Date of revision	: 20/09/2022
Date of previous issue	: 24/11/2019
Version	: 6

[Key to abbreviations](#)

: ADG = Australian Dangerous Goods
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

[Procedure used to derive the classification](#)

Classification	Justification
Paq5000 DNA Polymerase SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method

 Indicates information that has changed from previously issued version.

[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.