

# SAFETY DATA SHEET



Paq5000 Hotstart DNA Polymerase, Part Number 600864

## Section 1. Identification

**Product identifier** : Paq5000 Hotstart DNA Polymerase, Part Number 600864  
**Part No. (Chemical Kit)** : 600864  
**Part No.** : Paq5000 Hotstart DNA Polymerase 600864-51  
 10X Paq5000 Hotstart DNA Polymerase Buffer 600860-52

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

Analytical reagent.

Paq5000 Hotstart DNA Polymerase 1 ml (5000 U 5.0 U/μl)  
 10X Paq5000 Hotstart 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

Not classified.

Paq5000 Hotstart DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
10X Paq5000 Hotstart DNA 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: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 9.8% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.5%

### GHS label elements

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

**Hazard statements** : Paq5000 Hotstart DNA Polymerase No known significant effects or critical hazards.  
 10X Paq5000 Hotstart DNA Polymerase Buffer No known significant effects or critical hazards.

### Precautionary statements

## Section 2. Hazard(s) identification

<b>Prevention</b>	:	Paq5000 Hotstart DNA Polymerase	Not applicable.
		10X Paq5000 Hotstart DNA Polymerase Buffer	Not applicable.
<b>Response</b>	:	Paq5000 Hotstart DNA Polymerase	Not applicable.
		10X Paq5000 Hotstart DNA Polymerase Buffer	Not applicable.
<b>Storage</b>	:	Paq5000 Hotstart DNA Polymerase	Not applicable.
		10X Paq5000 Hotstart DNA Polymerase Buffer	Not applicable.
<b>Disposal</b>	:	Paq5000 Hotstart DNA Polymerase	Not applicable.
		10X Paq5000 Hotstart DNA Polymerase Buffer	Not applicable.
<b>Supplemental label elements</b>	:	Paq5000 Hotstart DNA Polymerase	Not applicable.
		10X Paq5000 Hotstart DNA Polymerase Buffer	Not applicable.
<b>Other hazards which do not result in classification</b>	:	Paq5000 Hotstart DNA Polymerase	None known.
		10X Paq5000 Hotstart DNA Polymerase Buffer	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	:	Paq5000 Hotstart DNA Polymerase	Mixture
		10X Paq5000 Hotstart DNA Polymerase Buffer	Mixture

### CAS number/other identifiers

There are no 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.

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	:	Paq5000 Hotstart DNA Polymerase	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.
		10X Paq5000 Hotstart DNA 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.
<b>Inhalation</b>	:	Paq5000 Hotstart DNA Polymerase	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.
		10X Paq5000 Hotstart DNA 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

## Section 4. First aid measures

<b>Skin contact</b>	: Paq5000 Hotstart DNA Polymerase  10X Paq5000 Hotstart DNA Polymerase Buffer	delayed. The exposed person may need to be kept under medical surveillance for 48 hours.  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.
<b>Ingestion</b>	: Paq5000 Hotstart DNA Polymerase  10X Paq5000 Hotstart DNA 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.  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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Inhalation</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Skin contact</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Ingestion</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.  No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	No specific data.  No specific data.
<b>Inhalation</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	No specific data.  No specific data.
<b>Skin contact</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	No specific data.  No specific data.
<b>Ingestion</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	No specific data.  No specific data.

## Section 4. First aid measures

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

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

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: Paq5000 Hotstart DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Paq5000 Hotstart DNA Polymerase	None known.
	10X Paq5000 Hotstart DNA Polymerase Buffer	None known.
<b>Specific hazards arising from the chemical</b>	: Paq5000 Hotstart DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X Paq5000 Hotstart DNA Polymerase Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: Paq5000 Hotstart DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
	10X Paq5000 Hotstart DNA Polymerase Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
<b>Special protective actions for fire-fighters</b>	: Paq5000 Hotstart DNA Polymerase	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.
	10X Paq5000 Hotstart 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.

## Section 5. Firefighting measures

<b>Special protective equipment for fire-fighters</b>	: Paq5000 Hotstart 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 Hotstart 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

<b>For non-emergency personnel</b>	: Paq5000 Hotstart 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 Paq5000 Hotstart 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.
<b>For emergency responders</b>	: Paq5000 Hotstart 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 Hotstart 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".
<b>Environmental precautions</b>	: Paq5000 Hotstart 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 Hotstart 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

<b>Methods for cleaning up</b>	: Paq5000 Hotstart 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 Hotstart 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

<b>Protective measures</b>	: Paq5000 Hotstart DNA Polymerase 10X Paq5000 Hotstart DNA Polymerase Buffer	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: Paq5000 Hotstart DNA Polymerase  10X Paq5000 Hotstart 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. 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.
<b>Conditions for safe storage, including any incompatibilities</b>	: Paq5000 Hotstart DNA Polymerase  10X Paq5000 Hotstart 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. 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.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

None.

<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Environmental exposure controls</b>	: 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

## Section 8. Exposure controls and personal protection

- 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

### Appearance

- Physical state** : Paq5000 Hotstart DNA Polymerase Liquid.  
10X Paq5000 Hotstart DNA Polymerase Buffer Liquid.
- Colour** : Paq5000 Hotstart DNA Polymerase Not available.  
10X Paq5000 Hotstart DNA Polymerase Buffer Not available.
- Odour** : Paq5000 Hotstart DNA Polymerase Not available.  
10X Paq5000 Hotstart DNA Polymerase Buffer Not available.
- Odour threshold** : Paq5000 Hotstart DNA Polymerase Not available.  
10X Paq5000 Hotstart DNA Polymerase Buffer Not available.
- pH** : Paq5000 Hotstart DNA Polymerase 8.2  
10X Paq5000 Hotstart DNA Polymerase Buffer 10
- Melting point** : Paq5000 Hotstart DNA Polymerase Not available.  
10X Paq5000 Hotstart DNA Polymerase Buffer Not available.
- Boiling point** : Paq5000 Hotstart DNA Polymerase Not available.  
10X Paq5000 Hotstart DNA Polymerase Buffer Not available.
- Flash point** : Paq5000 Hotstart DNA Polymerase Not available.  
10X Paq5000 Hotstart DNA Polymerase Buffer Not available.

## Section 9. Physical and chemical properties

<b>Evaporation rate</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.
<b>Flammability (solid, gas)</b>	: Paq5000 Hotstart DNA Polymerase	Not applicable.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.
<b>Vapour pressure</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.
<b>Vapour density</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.
<b>Relative density</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.
<b>Solubility</b>	: Paq5000 Hotstart DNA Polymerase	Easily soluble in the following materials: cold water and hot water.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.
<b>Auto-ignition temperature</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.
<b>Decomposition temperature</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.
<b>Viscosity</b>	: Paq5000 Hotstart DNA Polymerase	Not available.
	10X Paq5000 Hotstart DNA Polymerase Buffer	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: Paq5000 Hotstart DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: Paq5000 Hotstart DNA Polymerase	The product is stable.
	10X Paq5000 Hotstart DNA Polymerase Buffer	The product is stable.



## Section 10. Stability and reactivity

<b>Possibility of hazardous reactions</b>	: Paq5000 Hotstart DNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
	: 10X Paq5000 Hotstart DNA Polymerase Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Paq5000 Hotstart DNA Polymerase	No specific data.
	: 10X Paq5000 Hotstart DNA Polymerase Buffer	No specific data.
<b>Incompatible materials</b>	: Paq5000 Hotstart DNA Polymerase	May react or be incompatible with oxidising materials.
	: 10X Paq5000 Hotstart DNA Polymerase Buffer	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: Paq5000 Hotstart DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: 10X Paq5000 Hotstart DNA Polymerase Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

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

Not available.

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

Not available.

#### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	: Paq5000 Hotstart DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	: 10X Paq5000 Hotstart DNA Polymerase Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

## Section 11. Toxicological information

<b>Eye contact</b>	: Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.
<b>Inhalation</b>	: Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.
<b>Skin contact</b>	: Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.
<b>Ingestion</b>	: Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.

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

<b>Eye contact</b>	: Paq5000 Hotstart DNA Polymerase	No specific data.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No specific data.
<b>Inhalation</b>	: Paq5000 Hotstart DNA Polymerase	No specific data.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No specific data.
<b>Skin contact</b>	: Paq5000 Hotstart DNA Polymerase	No specific data.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No specific data.
<b>Ingestion</b>	: Paq5000 Hotstart DNA Polymerase	No specific data.
	10X Paq5000 Hotstart DNA Polymerase Buffer	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

Not available.

<b>General</b>	: Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Mutagenicity</b>	: <input checked="" type="checkbox"/> Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> 10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: <input checked="" type="checkbox"/> Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> 10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.
<b>Developmental effects</b>	: <input checked="" type="checkbox"/> Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> 10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.
<b>Fertility effects</b>	: <input checked="" type="checkbox"/> Paq5000 Hotstart DNA Polymerase	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> 10X Paq5000 Hotstart DNA Polymerase Buffer	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
<input checked="" type="checkbox"/> Paq5000 Hotstart DNA Polymerase	
Oral	33333.3 mg/kg
Dermal	73333.3 mg/kg
Inhalation (vapours)	733.3 mg/l

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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

## Section 13. Disposal considerations

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 Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine 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 (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

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

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 18/05/2017  
**Date of previous issue** : 13/02/2015.  
**Version** : 4

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 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)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
Not classified.	

**References** : Not available.

✔ 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.