SAFETY DATA SHEET



Taq2000 DNA Polymerase, Part Number 600196

Section 1. Identification

Product identifier : Taq2000 DNA Polymerase, Part Number 600196

Part no. (chemical kit) : 600196

: Taq2000 DNA Polymerase Part no. 600196-51 10X Tag Polymerase Buffer 600131-82

Material uses : Analytical reagent.

> Taq2000 DNA Polymerase 0.1 ml (500U 5U/µl)

> > 1 ml

10X Taq Polymerase Buffer

Supplier/Manufacturer : Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of operation)

: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Tag2000 DNA Polymerase

H320 EYE IRRITATION - Category 2B

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements

Signal word : Tag2000 DNA Polymerase Warning 10X Tag Polymerase Buffer No signal word.

Hazard statements : Tag2000 DNA Polymerase H320 - Causes eye irritation.

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.

: Tag2000 DNA Polymerase P305 + P351 + P338 - IF IN EYES: Rinse cautiously Response

> 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 Taq Polymerase Buffer Not applicable. : Tag2000 DNA Polymerase Not applicable. Storage

10X Tag Polymerase Buffer Not applicable.

Disposal : Tag2000 DNA Polymerase P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Not applicable.

10X Taq Polymerase Buffer

Supplemental label : Taq2000 DNA Polymerase None known.

10X Taq Polymerase Buffer None known. elements : Tag2000 DNA Polymerase Other hazards which do not None known. 10X Taq Polymerase Buffer result in classification None known.

Date of issue/Date of revision : 05/04/2022 : 08/14/2019 Version 1/15 Date of previous issue

Section 3. Composition/information on ingredients

: Tag2000 DNA Polymerase Substance/mixture Mixture 10X Taq Polymerase Buffer Mixture

Ingredient name	% (w/w)	CAS number
raq2000 DNA Polymerase Glycerol Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	30 - 60 0.1 - 1	56-81-5 9036-19-5
10X Taq Polymerase Buffer Potassium chloride	1 - 5	7447-40-7

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

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

Section 4. First-aid measures

Eye contact : Tag2000 DNA Polymerase 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.

10X Taq Polymerase Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Inhalation : Tag2000 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.

Remove victim to fresh air and keep at rest in a 10X Tag Polymerase Buffer

> 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 : 05/04/2022 : 08/14/2019 Version: 6 2/15 Date of previous issue

Section 4. First-aid measures

Ingestion : raq2000 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 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Taq2000 DNA Polymerase Causes eye irritation.

10X Taq Polymerase Buffer No known significant effects or critical hazards.

Inhalation : Taq2000 DNA Polymerase No known significant effects or critical hazards.

10X Taq Polymerase Buffer No known significant effects or critical hazards.

Skin contact: Taq2000 DNA Polymerase No known significant effects or critical hazards.

10X Taq Polymerase Buffer No known significant effects or critical hazards.

Ingestion: Taq2000 DNA Polymerase No known significant effects or critical hazards.

10X Taq Polymerase Buffer No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation

Eye contact : Taq2000 DNA Polymerase Adverse symptoms may include the following:

irritation watering

redness

10X Taq Polymerase Buffer No specific data.

: Taq2000 DNA Polymerase No specific data. 10X Taq Polymerase Buffer No specific data.

Skin contact : 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.

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

Notes to physician : Taq2000 DNA Polymerase Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

10X Taq 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.

No specific treatment.

Specific treatments: Taq2000 DNA Polymerase

10X Taq Polymerase Buffer No specific treatment.

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version : 6 3/15

Section 4. First-aid measures

Protection of first-aiders

: 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.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

See toxicological information (Section 11)

Tire fielding mesesures

Section 5. Fire-fig	nting measures	
Extinguishing media		
Suitable extinguishing media	: Taq2000 DNA Polymerase Use an extinguishing agent suitable for the surrounding fire.	
	10X Taq Polymerase Buffer Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: Taq2000 DNA Polymerase None known. 10X Taq Polymerase Buffer None known.	
Specific hazards arising from the chemical	: Taq2000 DNA Polymerase In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmfut 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.	ul
	10X Taq Polymerase Buffer In a fire or if heated, a pressure increase will occur and the container may burst.	
Hazardous thermal decomposition 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:	
Special protective actions for fire-fighters	: Taq2000 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 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.	
Special protective equipment for fire-fighters	: Taq2000 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.	
	10V Tan Dalymanaa Duffey Fire fighters about divisor appropriate protective	

Date of issue/Date of revision : 08/14/2019 Version: 6 : 05/04/2022 Date of previous issue 4/15

pressure mode.

10X Taq Polymerase Buffer

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Taq2000 DNA Polymerase

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear

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 without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

For emergency responders : Taq2000 DNA Polymerase

10X Taq Polymerase Buffer

10X Tag Polymerase Buffer

If specialized 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". If specialized 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: Taq2000 DNA Polymerase

Avoid dispersal of spilled 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

10X Taq Polymerase Buffer

Methods and materials for containment and cleaning up

Methods for cleaning up : Taq2000 DNA Polymerase

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

10X Taq Polymerase Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version : 6 5/15

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Taq2000 DNA Polymerase

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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. Put on appropriate personal protective equipment

10X Tag Polymerase Buffer

(see Section 8).

Advice on general occupational hygiene : Tag2000 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.

Conditions for safe storage, : Taq2000 DNA Polymerase including any incompatibilities

10X Tag 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Date of issue/Date of revision : 05/04/2022 : 08/14/2019 Version 6/15 Date of previous issue

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
r aq2000 DNA Polymerase	
Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 7/2019). TWAEV: 10 mg/m³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 1/2021). TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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: chemical splash goggles.

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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.

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version : 6 7/15

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

: Taq2000 DNA Polymerase Liquid. **Physical state** 10X Taq Polymerase Buffer Liquid.

: Tag2000 DNA Polymerase Color Not available. 10X Taq Polymerase Buffer Not available.

: Tag2000 DNA Polymerase Odor Not available. 10X Taq Polymerase Buffer Not available.

: Tag2000 DNA Polymerase Not available. **Odor threshold** 10X Taq Polymerase Buffer Not available.

8 pH : Tag2000 DNA Polymerase 10X Taq Polymerase Buffer 8.8

Taq2000 DNA Polymerase Not available. Melting point/freezing point 10X Taq Polymerase Buffer Not available.

Boiling point, initial boiling point, and boiling range Flash point

: Taq2000 DNA Polymerase Not available. 10X Taq Polymerase Buffer Not available.

	Closed cup				Open c	up
Ingredient name	°C	°F	Method	°C	°F	Method
Taq2000 DNA Polymerase						
Edetic acid	>100	>212	DIN 51758			
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl) phenyl]omega hydroxy-	>109.85	>229.7				

Evaporation rate

Flammability

Lower and upper explosion limit/flammability limit Vapor pressure

: Taq2000 DNA Polymerase

10X Tag Polymerase Buffer Not available. : Tag2000 DNA Polymerase 10X Taq Polymerase Buffer

Not applicable. Not applicable.

Not available.

: Tag2000 DNA Polymerase Not available. 10X Taq Polymerase Buffer Not available.

	Vapor Pressure at 20°C			Vapor pressure 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		

Relative vapor density

: Taq2000 DNA Polymerase 10X Taq Polymerase Buffer

Not available. Not available.

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version 8/15

Section 9. Physical and chemical properties and safety characteristics

10X Taq Polymerase Buffer

Deletive density		Tag2000 DNA Dalumarasa	Not available.		
Relative density	•	Taq2000 DNA Polymerase			
		10X Taq Polymerase Buffer	Not available.		
Solubility	:	Taq2000 DNA Polymerase	Soluble in the following materials: cold water and ho water.		
		10X Taq Polymerase Buffer	Easily soluble and hot water.		ng materials: cold water
Partition coefficient: n-		rag2000 DNA Polymerase	Not applicable	•	
octanol/water	•	10X Taq Polymerase Buffer	Not applicable		
Octanon/water		TOX Tay Folymerase buller	Not applicable	·.	
Auto-ignition temperature	:	Ingredient name	°C	°F	Method
		Taq2000 DNA Polymerase			
		Glycerol	370	698	
		Edetic acid	>400	>752	VDI 2263
Decomposition temperature	:	Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.		
Viscosity	:	Taq2000 DNA Polymerase 10X Taq Polymerase Buffer	Not available. Not available.		
Particle characteristics					
Median particle size	:	Taq2000 DNA Polymerase	Not applicable).	

Not applicable.

Section 10. Stability and reactivity

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

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version : 6 9/15

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Taq2000 DNA Polymerase				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Poly(oxy-1,2-ethanediyl), . alpha[LD50 Oral	Rat	2800 mg/kg	-
(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
10X Taq Polymerase				
Buffer				
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
F aq2000 DNA Polymerase					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
10X Taq Polymerase Buffer					
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

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 the likely routes of exposure

: raq2000 DNA Polymerase 10X Taq Polymerase Buffer

Routes of entry anticipated: Oral, Dermal, Inhalation. Not available.

Potential acute health effects

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version : 6 10/15

Section 11. Toxicological information

Eye contact : Taq2000 DNA Polymerase Causes eye irritation.

10X Taq Polymerase Buffer No known significant effects or critical hazards.

Inhalation : Tag2000 DNA Polymerase No known significant effects or critical hazards.

10X Taq Polymerase Buffer No known significant effects or critical hazards.

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

Ingestion : Tag2000 DNA Polymerase No known significant effects or critical hazards.

10X Taq Polymerase Buffer No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Taq2000 DNA Polymerase Adverse symptoms may include the following:

irritation watering redness

10X Taq Polymerase Buffer No specific data.

Inhalation : Taq2000 DNA Polymerase No specific data.
10X Taq Polymerase Buffer No specific data.

Skin contact : 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.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

General: Tag2000 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 Tag Polymerase Buffer No known significant effects or critical hazards.

Reproductive toxicity: Faq2000 DNA Polymerase No known significant effects or critical hazards.

10X Tag Polymerase Buffer No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version : 6 11/15

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Taq2000 DNA Polymerase Glycerol Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	12600 2800	N/A N/A	N/A N/A	N/A N/A	N/A N/A
10X Taq Polymerase Buffer 10X Taq Polymerase Buffer Potassium chloride	70270.3 2600	N/A N/A	N/A N/A	N/A N/A	N/A N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
▼aq2000 DNA Polymerase			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Poly(oxy-1,2-ethanediyl), . alpha[Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
(1,1,3,3-tetramethylbutyl)			
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
10X Taq Polymerase Buffer			
Potassium chloride	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 83000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Taq2000 DNA Polymerase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability
10X Taq Polymerase Buffer Potassium chloride	-		-		Readily

Bioaccumulative potential

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version : 6 12/15

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Taq2000 DNA Polymerase Glycerol Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	-1.76 3.77	- 78.67	low low
10X Taq Polymerase Buffer Potassium chloride	-0.46	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: 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 minimized 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 nonrecyclable 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. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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 : Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version: 6 13/15

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 : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : All components are listed or exempted.

: 05/04/2022

Section 16. Other information

History

Date of issue/Date of

revision

Date of previous issue : 08/14/2019

Version : 6

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations 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 UN = United Nations

Procedure used to derive the classification

Classification	Justification	
▼aq2000 DNA Polymerase EYE IRRITATION - Category 2B AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision : 05/04/2022 Date of previous issue : 08/14/2019 Version : 6 14/15

Section 16. Other information

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