

SAFETY DATA SHEET

AccuScript PfuUltra II RT-PCR Kit

Section 1. Identification

Product identifier	: AccuScript PfuUltra II RT-PCR Kit
Part no. (chemical kit)	: 600184
Part no.	: RNase-Free Water 600164-58
	AccuScript High Fidelity RT 600184-52
	10X AccuScript RT Reaction Buffer 600184-55
	PfuUltra II HS DNA Polymerase 600184-51
	10X PCR Reaction Buffer 600184-53
	40 mM dNTP Mix (10 mM each dNTP) 600166-55
	Oligo (dT) Primer 600166-54
	Random Primers 600166-56
	100 mM DTT 600184-54

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

Identified uses	: Analytical reagent.
	RNase-Free Water 3 x 1.2 ml
	AccuScript High Fidelity RT 0.025 ml
	10X AccuScript RT Reaction Buffer 0.05 ml
	PfuUltra II HS DNA Polymerase 0.05 ml
	10X PCR Reaction Buffer 1 ml
	40 mM dNTP Mix (10 mM each dNTP) 0.1 ml
	Oligo (dT) Primer 0.03 ml (3 µg 100 ng/µl)
	Random Primers 0.03 ml (3 µg 100 ng/µl)
	100 mM DTT 0.05 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

AccuScript High Fidelity RT H320	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B
PfuUltra II HS DNA Polymerase H320	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B
10X PCR Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.8%
40 mM dNTP Mix (10 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.7%

GHS label elements

Section 2. Hazard(s) identification

Signal word	: N ase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	No signal word. WARNING No signal word. WARNING No signal word. No signal word. No signal word. No signal word. No signal word.
Hazard statements	: N ase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	No known significant effects or critical hazards. H320 - Causes eye irritation. No known significant effects or critical hazards. H320 - Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: N ase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Response	: N ase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	Not applicable. 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. Not applicable. 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. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Section 2. Hazard(s) identification

Storage	: <input checked="" type="checkbox"/> N ase-Free Water	Not applicable.
	AccuScript High Fidelity RT	Not applicable.
	10X AccuScript RT Reaction Buffer	Not applicable.
	PfuUltra II HS DNA Polymerase	Not applicable.
	10X PCR Reaction Buffer	Not applicable.
	40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
	Oligo (dT) Primer	Not applicable.
	Random Primers	Not applicable.
	100 mM DTT	Not applicable.
Disposal	: <input checked="" type="checkbox"/> N ase-Free Water	Not applicable.
	AccuScript High Fidelity RT	Not applicable.
	10X AccuScript RT Reaction Buffer	Not applicable.
	PfuUltra II HS DNA Polymerase	Not applicable.
	10X PCR Reaction Buffer	Not applicable.
	40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
	Oligo (dT) Primer	Not applicable.
	Random Primers	Not applicable.
	100 mM DTT	Not applicable.
Supplemental label elements		
Additional warning phrases	: <input checked="" type="checkbox"/> N ase-Free Water	Not applicable.
	AccuScript High Fidelity RT	Not applicable.
	10X AccuScript RT Reaction Buffer	Not applicable.
	PfuUltra II HS DNA Polymerase	Not applicable.
	10X PCR Reaction Buffer	Not applicable.
	40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
	Oligo (dT) Primer	Not applicable.
	Random Primers	Not applicable.
	100 mM DTT	Not applicable.
Other hazards which do not result in classification	: <input checked="" type="checkbox"/> N ase-Free Water	None known.
	AccuScript High Fidelity RT	None known.
	10X AccuScript RT Reaction Buffer	None known.
	PfuUltra II HS DNA Polymerase	None known.
	10X PCR Reaction Buffer	None known.
	40 mM dNTP Mix (10 mM each dNTP)	None known.
	Oligo (dT) Primer	None known.
	Random Primers	None known.
	100 mM DTT	None known.

Section 3. Composition and ingredient information

Substance/mixture	: <input checked="" type="checkbox"/> N ase-Free Water	Substance
	AccuScript High Fidelity RT	Mixture
	10X AccuScript RT Reaction Buffer	Mixture
	PfuUltra II HS DNA Polymerase	Mixture
	10X PCR Reaction Buffer	Mixture
	40 mM dNTP Mix (10 mM each dNTP)	Mixture

Section 3. Composition and ingredient information

Oligo (dT) Primer	Mixture
Random Primers	Mixture
100 mM DTT	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
RNAse-Free Water		
water	100	7732-18-5
AccuScript High Fidelity RT		
Glycerol	≥30 - ≤60	56-81-5
PfuUltra II HS 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	: RNAse-Free Water	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.
	AccuScript High Fidelity RT	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 AccuScript RT Reaction 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.
	PfuUltra II HS 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 PCR Reaction 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.
	40 mM dNTP Mix (10 mM each dNTP)	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.
	Oligo (dT) Primer	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.
	Random Primers	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

Section 4. First aid measures

Inhalation

100 mM DTT

medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

: RNase-Free Water

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

AccuScript High Fidelity RT

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

10X AccuScript RT Reaction Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

PfuUltra II HS DNA Polymerase

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

10X PCR Reaction Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

40 mM dNTP Mix (10 mM each dNTP)

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.

Oligo (dT) Primer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Random Primers

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

100 mM DTT

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First aid measures

Skin contact	:	☒ Nose-Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		AccuScript High Fidelity RT	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 AccuScript RT Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		PfuUltra II HS 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 PCR Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		40 mM dNTP Mix (10 mM each dNTP)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Oligo (dT) Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Random Primers	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		100 mM DTT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ingestion	:	☒ Nose-Free Water
		AccuScript High Fidelity RT	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 AccuScript RT Reaction 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.
		PfuUltra II HS 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

Section 4. First aid measures

	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 PCR Reaction 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.
40 mM dNTP Mix (10 mM each dNTP)	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.
Oligo (dT) Primer	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.
Random Primers	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.
100 mM DTT	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

: <input checked="" type="checkbox"/> Nose-Free Water	No known significant effects or critical hazards.
AccuScript High Fidelity RT	Causes eye irritation.
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
PfuUltra II HS DNA Polymerase	Causes eye irritation.
10X PCR Reaction Buffer	No known significant effects or critical hazards.
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
Oligo (dT) Primer	No known significant effects or critical hazards.
Random Primers	No known significant effects or critical hazards.
100 mM DTT	No known significant effects or critical hazards.

Inhalation

: <input checked="" type="checkbox"/> Nose-Free Water	No known significant effects or critical hazards.
AccuScript High Fidelity RT	No known significant effects or critical hazards.
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
10X PCR Reaction Buffer	No known significant effects or critical hazards.
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
Oligo (dT) Primer	No known significant effects or critical hazards.
Random Primers	No known significant effects or critical hazards.
100 mM DTT	No known significant effects or critical hazards.

Section 4. First aid measures

Skin contact	:	☒Nase-Free Water	No known significant effects or critical hazards.
		AccuScript High Fidelity RT	No known significant effects or critical hazards.
		10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
		PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
		10X PCR Reaction Buffer	No known significant effects or critical hazards.
		40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
		Oligo (dT) Primer	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		100 mM DTT	No known significant effects or critical hazards.
		Ingestion	:
AccuScript High Fidelity RT	No known significant effects or critical hazards.		
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.		
PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.		
10X PCR Reaction Buffer	No known significant effects or critical hazards.		
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.		
Oligo (dT) Primer	No known significant effects or critical hazards.		
Random Primers	No known significant effects or critical hazards.		
100 mM DTT	No known significant effects or critical hazards.		
Over-exposure signs/symptoms			
Eye contact	:	☒Nase-Free Water	No specific data.
		AccuScript High Fidelity RT	Adverse symptoms may include the following: irritation watering redness
		10X AccuScript RT Reaction Buffer	No specific data.
		PfuUltra II HS DNA Polymerase	Adverse symptoms may include the following: irritation watering redness
		10X PCR Reaction Buffer	No specific data.
		40 mM dNTP Mix (10 mM each dNTP)	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		100 mM DTT	No specific data.
		Inhalation	:
AccuScript High Fidelity RT	No specific data.		
10X AccuScript RT Reaction Buffer	No specific data.		
PfuUltra II HS DNA Polymerase	No specific data.		
10X PCR Reaction Buffer	No specific data.		
40 mM dNTP Mix (10 mM each dNTP)	No specific data.		
Oligo (dT) Primer	No specific data.		
Random Primers	No specific data.		
100 mM DTT	No specific data.		
Skin contact	:		
		AccuScript High Fidelity RT	No specific data.
		10X AccuScript RT Reaction Buffer	No specific data.
		PfuUltra II HS DNA Polymerase	No specific data.
		10X PCR Reaction Buffer	No specific data.

Section 4. First aid measures


Ingestion	:	40 mM dNTP Mix (10 mM each dNTP)	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		100 mM DTT	No specific data.
		Nase-Free Water	No specific data.
		AccuScript High Fidelity RT	No specific data.
		10X AccuScript RT Reaction Buffer	No specific data.
		PfuUltra II HS DNA Polymerase	No specific data.
		10X PCR Reaction Buffer	No specific data.
		40 mM dNTP Mix (10 mM each dNTP)	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		100 mM DTT	No specific data.

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

Notes to physician	:	Nase-Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		AccuScript High Fidelity RT	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		10X AccuScript RT Reaction 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.
		PfuUltra II HS DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		10X PCR Reaction 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.
		40 mM dNTP Mix (10 mM each dNTP)	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.
		Oligo (dT) Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Random Primers	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		100 mM DTT	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments	:	Nase-Free Water	No specific treatment.
		AccuScript High Fidelity RT	No specific treatment.
		10X AccuScript RT Reaction Buffer	No specific treatment.
		PfuUltra II HS DNA Polymerase	No specific treatment.
		10X PCR Reaction Buffer	No specific treatment.
		40 mM dNTP Mix (10 mM each dNTP)	No specific treatment.
		Oligo (dT) Primer	No specific treatment.
		Random Primers	No specific treatment.
		100 mM DTT	No specific treatment.



Section 4. First aid measures

Protection of first-aiders	:  Nose-Free Water	No action shall be taken involving any personal risk or without suitable training.
	AccuScript High Fidelity RT	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 AccuScript RT Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
	PfuUltra II HS 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 PCR Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
	40 mM dNTP Mix (10 mM each dNTP)	No action shall be taken involving any personal risk or without suitable training.
	Oligo (dT) Primer	No action shall be taken involving any personal risk or without suitable training.
	Random Primers	No action shall be taken involving any personal risk or without suitable training.
	100 mM DTT	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	:  Nose-Free Water	Use an extinguishing agent suitable for the surrounding fire.
	AccuScript High Fidelity RT	Use an extinguishing agent suitable for the surrounding fire.
	10X AccuScript RT Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
	PfuUltra II HS DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	10X PCR Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
	40 mM dNTP Mix (10 mM each dNTP)	Use an extinguishing agent suitable for the surrounding fire.
	Oligo (dT) Primer	Use an extinguishing agent suitable for the surrounding fire.
	Random Primers	Use an extinguishing agent suitable for the surrounding fire.
	100 mM DTT	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:  Nose-Free Water	None known.
	AccuScript High Fidelity RT	None known.
	10X AccuScript RT Reaction Buffer	None known.
	PfuUltra II HS DNA Polymerase	None known.
	10X PCR Reaction Buffer	None known.
	40 mM dNTP Mix (10 mM each dNTP)	None known.
	Oligo (dT) Primer	None known.
	Random Primers	None known.
	100 mM DTT	None known.

Section 5. Firefighting measures

Specific hazards arising from the chemical	:  Nase-Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	AccuScript High Fidelity RT	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X AccuScript RT Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	PfuUltra II HS DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X PCR Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	40 mM dNTP Mix (10 mM each dNTP)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Oligo (dT) Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Random Primers	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:  Nase-Free Water	No specific data.
	AccuScript High Fidelity RT	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	10X AccuScript RT Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	PfuUltra II HS DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	10X PCR Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
	40 mM dNTP Mix (10 mM each dNTP)	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
Special protective actions for fire-fighters	:  Nase-Free Water	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.
	AccuScript High Fidelity RT	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

10X AccuScript RT Reaction 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.
PfuUltra II HS 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 PCR Reaction 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.
40 mM dNTP Mix (10 mM each dNTP)	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.
Oligo (dT) Primer	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.
Random Primers	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.
100 mM DTT	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 : RNase-Free Water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
AccuScript High Fidelity RT	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
10X AccuScript RT Reaction Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
PfuUltra II HS 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 PCR Reaction Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
40 mM dNTP Mix (10 mM each dNTP)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Oligo (dT) Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Random Primers	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
100 mM DTT	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive


Section 5. Firefighting measures

pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

:  Nose-Free Water

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.

AccuScript High Fidelity RT

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 AccuScript RT Reaction 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.

PfuUltra II HS 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 PCR Reaction 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.

40 mM dNTP Mix (10 mM each dNTP)

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.

Oligo (dT) Primer

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.

Random Primers

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.

100 mM DTT

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.

Section 6. Accidental release measures

For emergency responders : RNase-Free Water

AccuScript High Fidelity RT

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".

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 AccuScript RT Reaction 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".

PfuUltra II HS 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 PCR Reaction 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".

40 mM dNTP Mix (10 mM each dNTP)

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".

Oligo (dT) Primer

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".

Random Primers

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".

100 mM DTT

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 : RNase-Free Water

AccuScript High Fidelity RT

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).

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 AccuScript RT Reaction 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).

PfuUltra II HS 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 PCR Reaction 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).

40 mM dNTP Mix (10 mM

Avoid dispersal of spilt material and runoff and

Section 6. Accidental release measures

each dNTP)	contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Oligo (dT) Primer	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).
Random Primers	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).
100 mM DTT	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 : RNase-Free Water

	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.
AccuScript High Fidelity RT	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 AccuScript RT Reaction 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.
PfuUltra II HS 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 PCR Reaction 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.
40 mM dNTP Mix (10 mM each dNTP)	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.
Oligo (dT) Primer	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 6. Accidental release measures

Random Primers	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.
100 mM DTT	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

:  RNase-Free Water	Put on appropriate personal protective equipment (see Section 8).
AccuScript High Fidelity RT	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 AccuScript RT Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
PfuUltra II HS 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 PCR Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
40 mM dNTP Mix (10 mM each dNTP)	Put on appropriate personal protective equipment (see Section 8).
Oligo (dT) Primer	Put on appropriate personal protective equipment (see Section 8).
Random Primers	Put on appropriate personal protective equipment (see Section 8).
100 mM DTT	Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

:  RNase-Free Water	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.
AccuScript High Fidelity RT	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 AccuScript RT Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

Section 7. Handling and storage

PfuUltra II HS DNA
Polymerase

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.

10X PCR Reaction 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.

40 mM dNTP Mix (10 mM
each dNTP)

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.

Oligo (dT) Primer

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.

Random Primers

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.

100 mM DTT

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 : RNase-Free Water

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.

AccuScript High Fidelity RT

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

Section 7. Handling and storage

10X AccuScript RT Reaction Buffer	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. 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.
PfuUltra II HS 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 PCR Reaction 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.
40 mM dNTP Mix (10 mM each dNTP)	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.
Oligo (dT) Primer	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.
Random Primers	Store in accordance with local regulations. Store in original container protected from direct sunlight in a

Section 7. Handling and storage

100 mM DTT

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. 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
AccuScript High Fidelity RT Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m ³ 8 hours.
PfuUltra II HS DNA Polymerase Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m ³ 8 hours.

Biological exposure indices

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: chemical splash goggles.

Skin protection

Section 8. Exposure controls and personal 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.

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	:	RNAse-Free Water	Liquid.
		AccuScript High Fidelity RT	Liquid.
		10X AccuScript RT Reaction Buffer	Liquid.
		PfuUltra II HS DNA Polymerase	Liquid.
		10X PCR Reaction Buffer	Liquid.
		40 mM dNTP Mix (10 mM each dNTP)	Liquid.
		Oligo (dT) Primer	Liquid.
		Random Primers	Liquid.
		100 mM DTT	Liquid.
		Colour	:
AccuScript High Fidelity RT	Not available.		
10X AccuScript RT Reaction Buffer	Not available.		
PfuUltra II HS DNA Polymerase	Not available.		
10X PCR Reaction Buffer	Not available.		
40 mM dNTP Mix (10 mM each dNTP)	Not available.		
Oligo (dT) Primer	Not available.		
Random Primers	Not available.		
100 mM DTT	Not available.		
Odour	:		
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Reaction Buffer	Not available.
		PfuUltra II HS DNA Polymerase	Not available.
		10X PCR Reaction Buffer	Not available.
		40 mM dNTP Mix (10 mM each dNTP)	Not available.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		100 mM DTT	Not available.

Section 9. Physical and chemical properties and safety characteristics

Odour threshold : **Nase-Free Water** Not available.
 AccuScript High Fidelity RT Not available.
 10X AccuScript RT Reaction Buffer Not available.
 PfuUltra II HS DNA Polymerase Not available.
 10X PCR Reaction Buffer Not available.
 40 mM dNTP Mix (10 mM each dNTP) Not available.
 Oligo (dT) Primer Not available.
 Random Primers Not available.
 100 mM DTT Not available.

pH : **Nase-Free Water** 7
 AccuScript High Fidelity RT 8
 10X AccuScript RT Reaction Buffer 8.3
 PfuUltra II HS DNA Polymerase 8.2
 10X PCR Reaction Buffer 10
 40 mM dNTP Mix (10 mM each dNTP) 7.5
 Oligo (dT) Primer 7.5
 Random Primers 7.5
 100 mM DTT Not available.

Melting point/freezing point : **Nase-Free Water** 0°C (32°F)
 AccuScript High Fidelity RT Not available.
 10X AccuScript RT Reaction Buffer Not available.
 PfuUltra II HS DNA Polymerase Not available.
 10X PCR Reaction Buffer Not available.
 40 mM dNTP Mix (10 mM each dNTP) Not available.
 Oligo (dT) Primer 0°C (32°F)
 Random Primers 0°C (32°F)
 100 mM DTT 0°C (32°F)

Boiling point, initial boiling point, and boiling range : **Nase-Free Water** 100°C (212°F)
 AccuScript High Fidelity RT Not available.
 10X AccuScript RT Reaction Buffer Not available.
 PfuUltra II HS DNA Polymerase Not available.
 10X PCR Reaction Buffer Not available.
 40 mM dNTP Mix (10 mM each dNTP) Not available.
 Oligo (dT) Primer 100°C (212°F)
 Random Primers 100°C (212°F)
 100 mM DTT 100°C (212°F)

Flash point :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<input checked="" type="checkbox"/> AccuScript High Fidelity RT						
Glycerol	-	-	-	177	350.6	-
PfuUltra II HS DNA Polymerase						
Glycerol	-	-	-	177	350.6	-

Section 9. Physical and chemical properties and safety characteristics

Evaporation rate	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Flammability	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Lower and upper explosion limit/flammability limit	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Vapour pressure	: <input checked="" type="checkbox"/> Nase-Free Water	2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C (122°F)]

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<input checked="" type="checkbox"/> AccuScript High Fidelity RT						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
10X AccuScript RT Reaction Buffer						
water	17.5	2.3	-	92.258	12.3	-
PfuUltra II HS DNA Polymerase						
water	17.5	2.3	-	92.258	12.3	-

Section 9. Physical and chemical properties and safety characteristics

Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
10X PCR Reaction Buffer						
water	17.5	2.3	-	92.258	12.3	-
40 mM dNTP Mix (10 mM each dNTP)						
water	17.5	2.3	-	92.258	12.3	-
Oligo (dT) Primer						
water	17.5	2.3	-	92.258	12.3	-
Random Primers						
water	17.5	2.3	-	92.258	12.3	-
100 mM DTT						
water	17.5	2.3	-	92.258	12.3	-

Relative vapour density : RNase-Free Water 0.62 [Air = 1]
 AccuScript High Fidelity RT Not available.
 10X AccuScript RT Reaction Buffer Not available.
 PfuUltra II HS DNA Polymerase Not available.
 10X PCR Reaction Buffer Not available.
 40 mM dNTP Mix (10 mM each dNTP) Not available.
 Oligo (dT) Primer Not available.
 Random Primers Not available.
 100 mM DTT Not available.

Relative density : RNase-Free Water 1
 AccuScript High Fidelity RT Not available.
 10X AccuScript RT Reaction Buffer Not available.
 PfuUltra II HS DNA Polymerase Not available.
 10X PCR Reaction Buffer Not available.
 40 mM dNTP Mix (10 mM each dNTP) Not available.
 Oligo (dT) Primer Not available.
 Random Primers Not available.
 100 mM DTT Not available.

Section 9. Physical and chemical properties and safety characteristics

Solubility(ies)	Media	Result
	RNase-Free Water water	Soluble
	AccuScript High Fidelity RT water	Soluble
	10X AccuScript RT Reaction Buffer water	Soluble
	PfuUltra II HS DNA Polymerase water	Soluble
	10X PCR Reaction Buffer water	Soluble
	40 mM dNTP Mix (10 mM each dNTP) water	Soluble
	Oligo (dT) Primer water	Soluble
	Random Primers water	Soluble
	100 mM DTT water	Soluble

Partition coefficient: n-octanol/water	RNase-Free Water	-1.38
	AccuScript High Fidelity RT	Not applicable.
	10X AccuScript RT Reaction Buffer	Not applicable.
	PfuUltra II HS DNA Polymerase	Not applicable.
	10X PCR Reaction Buffer	Not applicable.
	40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
	Oligo (dT) Primer	Not applicable.
	Random Primers	Not applicable.
	100 mM DTT	Not applicable.

Auto-ignition temperature	Ingredient name	°C	°F	Method
	AccuScript High Fidelity RT Glycerol	370	698	-
	PfuUltra II HS DNA Polymerase Glycerol	370	698	-

Decomposition temperature	RNase-Free Water	Not available.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Reaction Buffer	Not available.
	PfuUltra II HS DNA Polymerase	Not available.
	10X PCR Reaction Buffer	Not available.
	40 mM dNTP Mix (10 mM each dNTP)	Not available.
	Oligo (dT) Primer	Not available.
	Random Primers	Not available.
	100 mM DTT	Not available.

Section 9. Physical and chemical properties and safety characteristics

Viscosity	:	☒Nase-Free Water	Not available.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Reaction Buffer	Not available.
		PfuUltra II HS DNA Polymerase	Not available.
		10X PCR Reaction Buffer	Not available.
		40 mM dNTP Mix (10 mM each dNTP)	Not available.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		100 mM DTT	Not available.

Particle characteristics

Median particle size	:	☒Nase-Free Water	Not applicable.
		AccuScript High Fidelity RT	Not applicable.
		10X AccuScript RT Reaction Buffer	Not applicable.
		PfuUltra II HS DNA Polymerase	Not applicable.
		10X PCR Reaction Buffer	Not applicable.
		40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
		Oligo (dT) Primer	Not applicable.
		Random Primers	Not applicable.
		100 mM DTT	Not applicable.

Section 10. Stability and reactivity

Reactivity	:	☒Nase-Free Water	No specific test data related to reactivity available for this product or its ingredients.
		AccuScript High Fidelity RT	No specific test data related to reactivity available for this product or its ingredients.
		10X AccuScript RT Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.
		PfuUltra II HS DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
		10X PCR Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.
		40 mM dNTP Mix (10 mM each dNTP)	No specific test data related to reactivity available for this product or its ingredients.
		Oligo (dT) Primer	No specific test data related to reactivity available for this product or its ingredients.
		Random Primers	No specific test data related to reactivity available for this product or its ingredients.
		100 mM DTT	No specific test data related to reactivity available for this product or its ingredients.

Chemical stability	:	☒Nase-Free Water	The product is stable.
		AccuScript High Fidelity RT	The product is stable.
		10X AccuScript RT Reaction Buffer	The product is stable.
		PfuUltra II HS DNA Polymerase	The product is stable.
		10X PCR Reaction Buffer	The product is stable.
		40 mM dNTP Mix (10 mM each dNTP)	The product is stable.
		Oligo (dT) Primer	The product is stable.
		Random Primers	The product is stable.
		100 mM DTT	The product is stable.

Section 10. Stability and reactivity

Possibility of hazardous reactions	: RNase-Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
	AccuScript High Fidelity RT	Under normal conditions of storage and use, hazardous reactions will not occur.
	10X AccuScript RT Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	PfuUltra II HS DNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
	10X PCR Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	40 mM dNTP Mix (10 mM each dNTP)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Oligo (dT) Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Random Primers	Under normal conditions of storage and use, hazardous reactions will not occur.
	100 mM DTT	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: RNase-Free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Reaction Buffer	No specific data.
	PfuUltra II HS DNA Polymerase	No specific data.
	10X PCR Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM each dNTP)	No specific data.
	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
	100 mM DTT	No specific data.
Incompatible materials	: RNase-Free Water	May react or be incompatible with oxidising materials.
	AccuScript High Fidelity RT	May react or be incompatible with oxidising materials.
	10X AccuScript RT Reaction Buffer	May react or be incompatible with oxidising materials.
	PfuUltra II HS DNA Polymerase	May react or be incompatible with oxidising materials.
	10X PCR Reaction Buffer	May react or be incompatible with oxidising materials.
	40 mM dNTP Mix (10 mM each dNTP)	May react or be incompatible with oxidising materials.
	Oligo (dT) Primer	May react or be incompatible with oxidising materials.
	Random Primers	May react or be incompatible with oxidising materials.
	100 mM DTT	May react or be incompatible with oxidising materials.
Hazardous decomposition products	: RNase-Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	AccuScript High Fidelity RT	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	10X AccuScript RT Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PfuUltra II HS DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	10X PCR Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	40 mM dNTP Mix (10 mM each dNTP)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 10. Stability and reactivity

Oligo (dT) Primer	produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Random Primers	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
100 mM DTT	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
AccuScript High Fidelity RT Glycerol	LD50 Oral	Rat	12600 mg/kg	-
PfuUltra II HS DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AccuScript High Fidelity RT Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
PfuUltra II HS 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.

Section 11. Toxicological information

Information on likely routes of exposure	☒ N ase-Free Water	Not available.
	AccuScript High Fidelity RT	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	10X AccuScript RT Reaction Buffer	Not available.
	PfuUltra II HS DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	10X PCR Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	40 mM dNTP Mix (10 mM each dNTP)	Not available.
	Oligo (dT) Primer Random Primers 100 mM DTT	Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact

☒ N ase-Free Water	No known significant effects or critical hazards.
AccuScript High Fidelity RT	Causes eye irritation.
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
PfuUltra II HS DNA Polymerase	Causes eye irritation.
10X PCR Reaction Buffer	No known significant effects or critical hazards.
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
Oligo (dT) Primer Random Primers 100 mM DTT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Inhalation

☒ N ase-Free Water	No known significant effects or critical hazards.
AccuScript High Fidelity RT	No known significant effects or critical hazards.
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
10X PCR Reaction Buffer	No known significant effects or critical hazards.
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
Oligo (dT) Primer Random Primers 100 mM DTT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Skin contact

☒ N ase-Free Water	No known significant effects or critical hazards.
AccuScript High Fidelity RT	No known significant effects or critical hazards.
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
10X PCR Reaction Buffer	No known significant effects or critical hazards.
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
Oligo (dT) Primer Random Primers 100 mM DTT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Ingestion

☒ N ase-Free Water	No known significant effects or critical hazards.
AccuScript High Fidelity RT	No known significant effects or critical hazards.
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
10X PCR Reaction Buffer	No known significant effects or critical hazards.
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.

Section 11. Toxicological information

Oligo (dT) Primer	No known significant effects or critical hazards.
Random Primers	No known significant effects or critical hazards.
100 mM DTT	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: <input checked="" type="checkbox"/> Nose-Free Water	No specific data.
	AccuScript High Fidelity RT	Adverse symptoms may include the following: irritation watering redness
	10X AccuScript RT Reaction Buffer	No specific data.
Inhalation	PfuUltra II HS DNA Polymerase	Adverse symptoms may include the following: irritation watering redness
	10X PCR Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM each dNTP)	No specific data.
	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
	100 mM DTT	No specific data.
	: <input checked="" type="checkbox"/> Nose-Free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Reaction Buffer	No specific data.
	PfuUltra II HS DNA Polymerase	No specific data.
10X PCR Reaction Buffer	No specific data.	
40 mM dNTP Mix (10 mM each dNTP)	No specific data.	
Oligo (dT) Primer	No specific data.	
Random Primers	No specific data.	
100 mM DTT	No specific data.	
Skin contact	: <input checked="" type="checkbox"/> Nose-Free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Reaction Buffer	No specific data.
	PfuUltra II HS DNA Polymerase	No specific data.
	10X PCR Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM each dNTP)	No specific data.
	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
	100 mM DTT	No specific data.
	Ingestion	: <input checked="" type="checkbox"/> Nose-Free Water
AccuScript High Fidelity RT		No specific data.
10X AccuScript RT Reaction Buffer		No specific data.
PfuUltra II HS DNA Polymerase		No specific data.
10X PCR Reaction Buffer		No specific data.
40 mM dNTP Mix (10 mM each dNTP)		No specific data.
Oligo (dT) Primer		No specific data.
Random Primers		No specific data.
100 mM DTT		No specific data.

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

Section 11. Toxicological information

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	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
Carcinogenicity	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
Mutagenicity	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
Reproductive toxicity	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 mM each dNTP) Oligo (dT) Primer Random Primers 100 mM DTT	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.
		No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
AccuScript High Fidelity RT Glycerol	12600	N/A	N/A	N/A	N/A
PfuUltra II HS DNA Polymerase Glycerol	12600	N/A	N/A	N/A	N/A
100 mM DTT 100 mM DTT	32467.5	N/A	N/A	N/A	N/A

Other information : 100 mM DTT

Adverse symptoms may include the following: May cause skin sensitisation.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
AccuScript High Fidelity RT Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
PfuUltra II HS DNA Polymerase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
AccuScript High Fidelity RT Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
PfuUltra II HS DNA Polymerase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
RNase-Free Water water	-	-	Readily

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
RNAse-Free Water water	-1.38	-	Low
AccuScript High Fidelity RT Glycerol	-1.76	-	Low
PfuUltra II HS 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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.
New Zealand : Not determined.
United States : Not determined.

Section 16. Any other relevant information

[History](#)

Date of issue/Date of revision : 28/10/2024
Date of previous issue : 27/09/2021
Version : 7

[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
AccuScript High Fidelity RT SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
PfuUltra II HS 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.