

# SAFETY DATA SHEET



AccuScript High Fidelity 1st Strand cDNA Synthesis Kit, Part Number 200820

## Section 1. Identification

<b>Product identifier</b>	:	AccuScript High Fidelity 1st Strand cDNA Synthesis Kit, Part Number 200820																
<b>Part No. (Chemical Kit)</b>	:	200820																
<b>Part No.</b>	:	<table border="0"> <tr> <td>RNase-free Water</td> <td>600164-58</td> </tr> <tr> <td>AccuScript High Fidelity RT</td> <td>600089-54</td> </tr> <tr> <td>10X AccuScript RT Buffer</td> <td>600089-52</td> </tr> <tr> <td>RNase Block</td> <td>200820-56</td> </tr> <tr> <td>100 mM dNTP Mix (25 mM each dNTP)</td> <td>200820-55</td> </tr> <tr> <td>Oligo(dT) primer</td> <td>200820-52</td> </tr> <tr> <td>Random primers</td> <td>200420-53</td> </tr> <tr> <td>100 mM DTT</td> <td>600089-53</td> </tr> </table>	RNase-free Water	600164-58	AccuScript High Fidelity RT	600089-54	10X AccuScript RT Buffer	600089-52	RNase Block	200820-56	100 mM dNTP Mix (25 mM each dNTP)	200820-55	Oligo(dT) primer	200820-52	Random primers	200420-53	100 mM DTT	600089-53
RNase-free Water	600164-58																	
AccuScript High Fidelity RT	600089-54																	
10X AccuScript RT Buffer	600089-52																	
RNase Block	200820-56																	
100 mM dNTP Mix (25 mM each dNTP)	200820-55																	
Oligo(dT) primer	200820-52																	
Random primers	200420-53																	
100 mM DTT	600089-53																	

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

Analytical reagent.

RNase-free Water	1.2 ml
AccuScript High Fidelity RT	0.05 ml (50 Reactions)
10X AccuScript RT Buffer	0.1 ml
RNase Block	0.025 ml (1000 U 40 U/μl)
100 mM dNTP Mix (25 mM each dNTP)	0.04 ml
Oligo(dT) primer	0.05 ml (25 μg 0.5 μg/μl)
Random primers	0.15 ml (15 μg 0.1 μg/μl)
100 mM DTT	0.1 ml

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

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

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

Not classified.

100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 5.7%
100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.7%

### GHS label elements

<b>Signal word</b>	:	<table border="0"> <tr> <td>RNase-free Water</td> <td>No signal word.</td> </tr> <tr> <td>AccuScript High Fidelity RT</td> <td>No signal word.</td> </tr> <tr> <td>10X AccuScript RT Buffer</td> <td>No signal word.</td> </tr> <tr> <td>RNase Block</td> <td>No signal word.</td> </tr> <tr> <td>100 mM dNTP Mix (25 mM each dNTP)</td> <td>No signal word.</td> </tr> <tr> <td>Oligo(dT) primer</td> <td>No signal word.</td> </tr> <tr> <td>Random primers</td> <td>No signal word.</td> </tr> <tr> <td>100 mM DTT</td> <td>No signal word.</td> </tr> </table>	RNase-free Water	No signal word.	AccuScript High Fidelity RT	No signal word.	10X AccuScript RT Buffer	No signal word.	RNase Block	No signal word.	100 mM dNTP Mix (25 mM each dNTP)	No signal word.	Oligo(dT) primer	No signal word.	Random primers	No signal word.	100 mM DTT	No signal word.
RNase-free Water	No signal word.																	
AccuScript High Fidelity RT	No signal word.																	
10X AccuScript RT Buffer	No signal word.																	
RNase Block	No signal word.																	
100 mM dNTP Mix (25 mM each dNTP)	No signal word.																	
Oligo(dT) primer	No signal word.																	
Random primers	No signal word.																	
100 mM DTT	No signal word.																	

## Section 2. Hazard(s) identification

<b>Hazard statements</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.
<b>Precautionary statements</b>		
<b>Prevention</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.
<b>Response</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.
<b>Storage</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.
<b>Disposal</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.
<b>Supplemental label elements</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.

## Section 2. Hazard(s) identification

<b>Other hazards which do not result in classification</b>	<b>RNase-free Water</b>	None known.
	AccuScript High Fidelity RT	None known.
	10X AccuScript RT Buffer	None known.
	RNase Block	None known.
	100 mM dNTP Mix (25 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

<b>Substance/mixture</b>	<b>RNase-free Water</b>	Substance
	AccuScript High Fidelity RT	Mixture
	10X AccuScript RT Buffer	Mixture
	RNase Block	Mixture
	100 mM dNTP Mix (25 mM each dNTP)	Mixture
	Oligo(dT) primer	Mixture
	Random primers	Mixture
	100 mM DTT	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>RNase-free Water</b> Water	100	7732-18-5
<b>AccuScript High Fidelity RT</b> Glycerol	≥30 - ≤60	56-81-5
<b>RNase Block</b> 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 as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	<b>RNase-free Water</b>	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. Get medical attention if irritation occurs.
	10X AccuScript RT 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.
	RNase Block	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.
	100 mM dNTP Mix (25 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,

## Section 4. First aid measures

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 medical attention if irritation occurs.

100 mM DTT

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

: 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. Get medical attention if symptoms occur.

10X AccuScript RT 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.

RNase Block

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

100 mM dNTP Mix (25 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.

### Skin contact

: RNase-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.

10X AccuScript RT Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

RNase Block

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

100 mM dNTP Mix (25 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.

## Section 4. First aid measures

### Ingestion

: RNase-free Water	Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
AccuScript High Fidelity RT	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
10X AccuScript RT Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
RNase Block	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
100 mM dNTP Mix (25 mM each dNTP)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Oligo(dT) primer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Random primers	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
100 mM DTT	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

### Potential acute health effects

## Section 4. First aid measures

<b>Eye contact</b>	: RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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. No known significant effects or critical hazards.
<b>Inhalation</b>	: RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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. No known significant effects or critical hazards.
<b>Skin contact</b>	: RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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. No known significant effects or critical hazards.
<b>Ingestion</b>	: RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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. No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 mM each dNTP) Oligo(dT) primer Random primers 100 mM DTT	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Inhalation</b>	: RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 mM each dNTP) Oligo(dT) primer Random primers 100 mM DTT	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

## Section 4. First aid measures

<b>Skin contact</b>	: RNase-free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Buffer	No specific data.
	RNase Block	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Oligo(dT) primer	No specific data.
	Random primers	No specific data.
<b>Ingestion</b>	: RNase-free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Buffer	No specific data.
	RNase Block	No specific data.
	100 mM dNTP Mix (25 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

<b>Notes to physician</b>	: RNase-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 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.
	RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	100 mM dNTP Mix (25 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.
<b>Specific treatments</b>	: RNase-free Water	No specific treatment.
	AccuScript High Fidelity RT	No specific treatment.
	10X AccuScript RT Buffer	No specific treatment.
	RNase Block	No specific treatment.
	100 mM dNTP Mix (25 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

<b>Protection of first-aiders</b>	: RNase-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.
	10X AccuScript RT Buffer	No action shall be taken involving any personal risk or without suitable training.
	RNase Block	No action shall be taken involving any personal risk or without suitable training.
	100 mM dNTP Mix (25 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

<b>Suitable extinguishing media</b>	: RNase-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 Buffer	Use an extinguishing agent suitable for the surrounding fire.
	RNase Block	Use an extinguishing agent suitable for the surrounding fire.
	100 mM dNTP Mix (25 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.
<b>Unsuitable extinguishing media</b>	: RNase-free Water	None known.
	AccuScript High Fidelity RT	None known.
	10X AccuScript RT Buffer	None known.
	RNase Block	None known.
	100 mM dNTP Mix (25 mM each dNTP)	None known.
	Oligo(dT) primer	None known.
	Random primers	None known.
	100 mM DTT	None known.

### Specific hazards arising from the chemical

: RNase-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 Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
100 mM dNTP Mix (25 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.



## Section 5. Firefighting measures

	100 mM DTT	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: RNase-free Water	No specific data.
	AccuScript High Fidelity RT	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	10X AccuScript RT Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	100 mM dNTP Mix (25 mM each dNTP)	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
	Oligo(dT) primer Random primers 100 mM DTT	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
<b>Special protective actions for fire-fighters</b>	: RNase-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.
	10X AccuScript RT 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.
	RNase Block	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 dNTP Mix (25 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

## Section 5. Firefighting measures

### Special protective equipment for fire-fighters

: RNase-free Water

without suitable training.

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 Buffer

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

RNase Block

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 dNTP Mix (25 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 pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: RNase-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. Put on appropriate personal protective equipment.

10X AccuScript RT 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.

RNase Block

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 dNTP Mix (25 mM each dNTP)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

## Section 6. Accidental release measures

	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.
<b>For emergency responders</b> : RNase-free Water	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".
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".
10X AccuScript RT 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".
RNase Block	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 dNTP Mix (25 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".
<b>Environmental precautions</b> : RNase-free Water	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).
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

## Section 6. Accidental release measures

	caused environmental pollution (sewers, waterways, soil or air).
10X AccuScript RT 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).
RNase Block	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 dNTP Mix (25 mM each dNTP)	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).
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 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.
RNase Block	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 dNTP Mix (25 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.


## Section 6. Accidental release measures

Oligo(dT) primer	disposal contractor. 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.
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).
10X AccuScript RT Buffer	Put on appropriate personal protective equipment (see Section 8).
RNase Block	Put on appropriate personal protective equipment (see Section 8).
100 mM dNTP Mix (25 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 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.
RNase Block	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

100 mM dNTP Mix (25 mM each dNTP)	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** :  Nose-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.

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 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.

10X AccuScript RT 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.

## Section 7. Handling and storage

RNase Block	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.
100 mM dNTP Mix (25 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.
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.
Random primers	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.
100 mM DTT	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

## Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
<b>AccuScript High Fidelity RT</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>RNase Block</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** :
- |                                   |         |
|-----------------------------------|---------|
| RNase-free Water                  | Liquid. |
| AccuScript High Fidelity RT       | Liquid. |
| 10X AccuScript RT Buffer          | Liquid. |
| RNase Block                       | Liquid. |
| 100 mM dNTP Mix (25 mM each dNTP) | Liquid. |
| Oligo(dT) primer                  | Liquid. |
| Random primers                    | Liquid. |
| 100 mM DTT                        | Liquid. |



## Section 9. Physical and chemical properties

<b>Colour</b>	: RNase-free Water	Colourless.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	Not available.
	Random primers	Not available.
<b>Odour</b>	: RNase-free Water	Odourless.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	Not available.
	Random primers	Not available.
<b>Odour threshold</b>	: RNase-free Water	Not available.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	Not available.
	Random primers	Not available.
<b>pH</b>	: RNase-free Water	Not available.
	AccuScript High Fidelity RT	8
	10X AccuScript RT Buffer	8.3
	RNase Block	7.6
	100 mM dNTP Mix (25 mM each dNTP)	7.5
	Oligo(dT) primer	7.5
	Random primers	7.5
<b>Melting point</b>	: RNase-free Water	0°C (32°F)
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	0°C (32°F)
	Random primers	0°C (32°F)
<b>Boiling point</b>	: RNase-free Water	100°C (212°F)
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	100°C (212°F)
	Random primers	100°C (212°F)
<b>Flash point</b>	: RNase-free Water	Not available.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	Not available.
	Random primers	Not available.

## Section 9. Physical and chemical properties

		100 mM DTT	Not available.
<b>Evaporation rate</b>	:	<input checked="" type="checkbox"/> RNase-free Water	Not available.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Buffer	Not available.
		RNase Block	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Oligo(dT) primer	Not available.
		Random primers	Not available.
		100 mM DTT	Not available.
<b>Flammability (solid, gas)</b>	:	<input checked="" type="checkbox"/> RNase-free Water	Not applicable.
		AccuScript High Fidelity RT	Not applicable.
		10X AccuScript RT Buffer	Not applicable.
		RNase Block	Not applicable.
		100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
		Oligo(dT) primer	Not applicable.
		Random primers	Not applicable.
		100 mM DTT	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	:	<input checked="" type="checkbox"/> RNase-free Water	Not available.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Buffer	Not available.
		RNase Block	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Oligo(dT) primer	Not available.
		Random primers	Not available.
		100 mM DTT	Not available.
<b>Vapour pressure</b>	:	<input checked="" type="checkbox"/> RNase-free Water	Not available.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Buffer	Not available.
		RNase Block	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Oligo(dT) primer	Not available.
		Random primers	Not available.
		100 mM DTT	Not available.
<b>Vapour density</b>	:	<input checked="" type="checkbox"/> RNase-free Water	Not available.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Buffer	Not available.
		RNase Block	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Oligo(dT) primer	Not available.
		Random primers	Not available.
		100 mM DTT	Not available.
<b>Relative density</b>	:	<input checked="" type="checkbox"/> RNase-free Water	Not available.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Buffer	Not available.
		RNase Block	Not available.
		100 mM dNTP Mix (25 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

<b>Solubility</b>	: RNase-free Water	Easily soluble in the following materials: cold water and hot water.
	AccuScript High Fidelity RT	Soluble in the following materials: cold water and hot water.
	10X AccuScript RT Buffer	Easily soluble in the following materials: cold water and hot water.
	RNase Block	Soluble in the following materials: cold water and hot water.
	100 mM dNTP Mix (25 mM each dNTP)	Easily soluble in the following materials: cold water and hot water.
	Oligo(dT) primer	Easily soluble in the following materials: cold water and hot water.
	Random primers	Easily soluble in the following materials: cold water and hot water.
	100 mM DTT	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: RNase-free Water	Not available.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	Not available.
	Random primers	Not available.
	100 mM DTT	Not available.
<b>Auto-ignition temperature</b>	: RNase-free Water	Not available.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	Not available.
	Random primers	Not available.
	100 mM DTT	Not available.
<b>Decomposition temperature</b>	: RNase-free Water	Not available.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	Not available.
	Random primers	Not available.
	100 mM DTT	Not available.
<b>Viscosity</b>	: RNase-free Water	Not available.
	AccuScript High Fidelity RT	Not available.
	10X AccuScript RT Buffer	Not available.
	RNase Block	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Oligo(dT) primer	Not available.
	Random primers	Not available.
	100 mM DTT	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: RNase-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 Buffer	No specific test data related to reactivity available for this product or its ingredients.
	RNase Block	No specific test data related to reactivity available for

## Section 10. Stability and reactivity

	100 mM dNTP Mix (25 mM each dNTP)	this product or its ingredients. 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.
<b>Chemical stability</b>	: RNase-free Water	The product is stable.
	AccuScript High Fidelity RT	The product is stable.
	10X AccuScript RT Buffer	The product is stable.
	RNase Block	The product is stable.
	100 mM dNTP Mix (25 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.
<b>Possibility of hazardous reactions</b>	: 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 Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	100 mM dNTP Mix (25 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.
<b>Conditions to avoid</b>	: RNase-free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Buffer	No specific data.
	RNase Block	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Oligo(dT) primer	No specific data.
	Random primers	No specific data.
	100 mM DTT	No specific data.
<b>Incompatible materials</b>	: 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 Buffer	May react or be incompatible with oxidising materials.
	RNase Block	May react or be incompatible with oxidising materials.
	100 mM dNTP Mix (25 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.

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: 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 Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	100 mM dNTP Mix (25 mM each dNTP)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Oligo(dT) primer	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	-
RNase Block 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 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

## Section 11. Toxicological information

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	<p><b>:</b> RNase-free Water                  AccuScript High Fidelity RT                  10X AccuScript RT Buffer                  RNase Block                  100 mM dNTP Mix (25 mM each dNTP)                  Oligo(dT) primer                  Random primers                  100 mM DTT</p>	<p>Not available.                  Routes of entry anticipated: Oral, Dermal, Inhalation.                  Routes of entry anticipated: Oral, Dermal, Inhalation.                  Routes of entry anticipated: Dermal.                  Not available.                  Not available.                  Not available.                  Routes of entry anticipated: Oral, Dermal, Inhalation.</p>
---	---	---

### Potential acute health effects

<b>Eye contact</b>	<p><b>:</b> RNase-free Water                  AccuScript High Fidelity RT                  10X AccuScript RT Buffer                  RNase Block                  100 mM dNTP Mix (25 mM each dNTP)                  Oligo(dT) primer                  Random primers                  100 mM DTT</p>	<p>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.                  No known significant effects or critical hazards.</p>
--------------------	---	---

<b>Inhalation</b>	<p><b>:</b> RNase-free Water                  AccuScript High Fidelity RT                  10X AccuScript RT Buffer                  RNase Block                  100 mM dNTP Mix (25 mM each dNTP)                  Oligo(dT) primer                  Random primers                  100 mM DTT</p>	<p>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.                  No known significant effects or critical hazards.</p>
-------------------	---	---

<b>Skin contact</b>	<p><b>:</b> RNase-free Water                  AccuScript High Fidelity RT                  10X AccuScript RT Buffer                  RNase Block                  100 mM dNTP Mix (25 mM each dNTP)                  Oligo(dT) primer                  Random primers                  100 mM DTT</p>	<p>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.                  No known significant effects or critical hazards.</p>
---------------------	---	---

<b>Ingestion</b>	<p><b>:</b> RNase-free Water                  AccuScript High Fidelity RT                  10X AccuScript RT Buffer                  RNase Block                  100 mM dNTP Mix (25 mM each dNTP)                  Oligo(dT) primer                  Random primers                  100 mM DTT</p>	<p>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.                  No known significant effects or critical hazards.</p>
------------------	---	---

## Section 11. Toxicological information

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

<b>Eye contact</b>	: RNase-free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Buffer	No specific data.
	RNase Block	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Oligo(dT) primer	No specific data.
	Random primers	No specific data.
<b>Inhalation</b>	: RNase-free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Buffer	No specific data.
	RNase Block	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Oligo(dT) primer	No specific data.
	Random primers	No specific data.
<b>Skin contact</b>	: RNase-free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Buffer	No specific data.
	RNase Block	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Oligo(dT) primer	No specific data.
	Random primers	No specific data.
<b>Ingestion</b>	: RNase-free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Buffer	No specific data.
	RNase Block	No specific data.
	100 mM dNTP Mix (25 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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

<b>General</b>	: RNase-free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Buffer	No known significant effects or critical hazards.
	RNase Block	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 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.

## Section 11. Toxicological information

<b>Carcinogenicity</b>	: 100 mM DTT <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.
<b>Teratogenicity</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.
<b>Developmental effects</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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.
<b>Fertility effects</b>	: <input checked="" type="checkbox"/> RNase-free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 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

Route	ATE value
<input checked="" type="checkbox"/> 100 mM DTT Oral	33333.3 mg/kg



## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> <b>AccuScript High Fidelity RT</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>RNase Block</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<input checked="" type="checkbox"/> <b>RNase-free Water</b> Water	-	100 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<input checked="" type="checkbox"/> <b>RNase-free Water</b> Water	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<input checked="" type="checkbox"/> <b>RNase-free Water</b> Water	-1.38	-	low
<b>AccuScript High Fidelity RT</b> Glycerol	-1.76	-	low
<b>RNase Block</b> Glycerol	-1.76	-	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

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

## Section 13. Disposal considerations

**Disposal methods** :  The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

### Regulatory information

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

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

**Australia inventory (AICS)** :  Not determined.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### International lists

#### National inventory

- Canada** :  All components are listed or exempted.
- China** :  All components are listed or exempted.
- Europe** :  All components are listed or exempted.
- Japan** :  **Japan inventory (ENCS):** Not determined.  
**Japan inventory (ISHL):** Not determined.
- Malaysia** :  Not determined.
- 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.
- Turkey** :  Not determined.
- United States** :  All components are listed or exempted.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 27/10/2016

**Date of previous issue** : 24/10/2013.

**Version** : 4

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
Not classified.	

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.