

SAFETY DATA SHEET



AccuScript High Fidelity 1st Strand cDNA Synthesis Kit

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : AccuScript High Fidelity 1st Strand cDNA Synthesis Kit

UK (GB) REACH Registration number

Registration number	Legal entity
<input checked="" type="checkbox"/> RNase-Free Water Exempt from REACH: According to the provisions of Article 2(7)(a) and Annex IV of REACH	-

CAS number :

<input checked="" type="checkbox"/> RNase-Free Water	7732-18-5
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.

Part no. (chemical kit) : 200820

Part no. :

<input checked="" type="checkbox"/> 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

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

Identified uses :

<input checked="" type="checkbox"/> Analytical reagent.	
<input checked="" type="checkbox"/> 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

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.
5500 Lakeside Cheadle Royal Business Park,
Cheadle, Cheshire, SK8 3GR
United Kingdom
Tel: +44 (0) 345 712 5292

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	<input checked="" type="checkbox"/> RNase-Free Water	Mono-constituent 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

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

<input checked="" type="checkbox"/> RNase-Free Water	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
AccuScript High Fidelity RT	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
10X AccuScript RT Buffer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
RNase Block	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
100 mM dNTP Mix (25 mM each dNTP)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Oligo(dT) Primer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Random Primers	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
100 mM DTT	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity	:	<input checked="" type="checkbox"/> AccuScript High Fidelity RT	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		10X AccuScript RT Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
			Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		100 mM DTT	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

Ingredients of unknown ecotoxicity : 100 mM dNTP Mix (25 mM each dNTP) Contains 5.7% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

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SECTION 2: Hazards identification

2.2 Label elements

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.

Hazard statements

- : 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.
- 100 mM DTT No known significant effects or critical hazards.

Precautionary statements

Prevention

- : 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.

Response

- : 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.

Storage

- : 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.

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Disposal	: 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.
Supplemental label elements	: 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. Safety data sheet available on request. Not applicable. Safety data sheet available on request. Not applicable. Not applicable. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: 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.
Special packaging requirements		
Containers to be fitted with child-resistant fastenings	: 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.
Tactile warning of danger	: 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.

2.3 Other hazards

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SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	P	B	T	vPvB	vP	vB
RNase-Free Water						
Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

AccuScript High Fidelity RT This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
10X AccuScript RT Buffer This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
RNase Block This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
100 mM dNTP Mix (25 mM each dNTP) This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Oligo(dT) Primer This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Random Primers This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
100 mM DTT This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

RNase-Free Water Mono-constituent 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

Product/ingredient name	Identifiers	%	Classification	Type
RNase-Free Water water	UK (GB) REACH #: Annex IV REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	[1]
AccuScript High Fidelity RT Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
RNase Block Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]

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SECTION 3: Composition/information on ingredients

<p>100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol</p>	<p>EC: 222-468-7 CAS: 3483-12-3</p>	<p>≤3</p>	<p>Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.</p>	<p>[1]</p>
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There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

- Type
- RNase-Free Water [1] Constituent
 - AccuScript High Fidelity RT [1] Substance with a workplace exposure limit
 - RNase Block [1] Substance with a workplace exposure limit
 - 100 mM DTT [1] Substance classified with a health or environmental hazard
- Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: <input checked="" type="checkbox"/> 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. 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, 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	: <input checked="" type="checkbox"/> 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	Remove victim to fresh air and keep at rest in a position

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mM each dNTP)	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. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

: RNase-Free Water	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.
AccuScript High Fidelity RT	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.
10X AccuScript RT 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.
RNase Block	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 dNTP Mix (25 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

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SECTION 4: First aid measures

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.

Protection of first-aiders	: 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: 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.

Inhalation	: 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.

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Skin contact : 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.

Ingestion : 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.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : 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.

Specific treatments : 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 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 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.
Unsuitable extinguishing media	: 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.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: 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.
Hazardous combustion products	: 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

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SECTION 5: Firefighting measures

Oligo(dT) Primer	No specific data.
Random Primers	No specific data.
100 mM DTT	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: 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 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 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

6.1 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 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.
For emergency responders	: 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

SECTION 6: Accidental release measures

	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".

6.2 Environmental precautions

: 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 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).

6.3 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

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SECTION 6: Accidental release measures

100 mM dNTP Mix (25 mM each dNTP)	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.
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.


6.4 Reference to other sections : See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures :  **Nase-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 :  **Nase-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.

SECTION 7: Handling and storage

RNase Block	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.
100 mM dNTP Mix (25 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage

: 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 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 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. See Section 10 for incompatible materials before handling or use.

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. See Section 10 for incompatible materials before handling or use.
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. 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 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.
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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
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SECTION 7: Handling and storage

	100 mM DTT	Industrial applications, Professional applications.
Industrial sector specific solutions	<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 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
<input checked="" type="checkbox"/> AccuScript High Fidelity RT Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
RNase Block Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

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

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.

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SECTION 8: Exposure controls/personal protection

- 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.
- 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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	<input checked="" type="checkbox"/> 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.
Colour	:	<input checked="" type="checkbox"/> 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.
Odour	:	<input checked="" type="checkbox"/> 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.
Odour threshold	:	<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.

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SECTION 9: Physical and chemical properties

Melting point/freezing point : **RNase-Free Water** 0°C
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
Random Primers 0°C
100 mM DTT 0°C

Initial boiling point and boiling range : **RNase-Free Water** 100°C
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
Random Primers 100°C
100 mM DTT 100°C

Flammability : **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.

Upper/lower flammability or explosive limits : **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.

Flash point :

Ingredient name	Closed cup		Open cup	
	°C	Method	°C	Method
AccuScript High Fidelity RT				
glycerol	-	-	177	-
RNase Block				
glycerol	-	-	177	-
100 mM DTT				
(R*,R*)-1,4-dimercaptobutane-2,3-diol	>110	-	-	-

Auto-ignition temperature :

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SECTION 9: Physical and chemical properties

Ingredient name	°C	Method
AccuScript High Fidelity RT		
glycerol	370	-
RNase Block		
glycerol	370	-

Decomposition temperature : **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.

pH : **RNase-Free Water** 7
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
100 mM DTT Not available.

Viscosity : **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.

Media	Result
RNase-Free Water	
water	Soluble
AccuScript High Fidelity RT	
water	Soluble
10X AccuScript RT Buffer	
water	Soluble
RNase Block	
water	Soluble
100 mM dNTP Mix (25 mM each dNTP)	
water	Soluble
Oligo(dT) Primer	
water	Soluble
Random Primers	
water	Soluble
100 mM DTT	
water	Soluble

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SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/water : RNase-Free Water -1.38
 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.

Vapour pressure : RNase-Free Water 2.3 kPa (17.5 mm Hg) [room temperature]
 12.3 kPa (92.258 mm Hg) [50°C]

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
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 Buffer						
water	17.5	2.3	-	92.258	12.3	-
RNase Block						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
100 mM dNTP Mix (25 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	-

Evaporation rate : 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.

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SECTION 9: Physical and chemical properties

		mM each dNTP)	
		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 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.
Vapour density	:	RNase-Free Water	0.62 [Air = 1]
		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.
Explosive properties	:	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.
Oxidising properties	:	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.
Particle characteristics			
Median particle size	:	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.





9.2 Other information

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SECTION 9: Physical and chemical properties

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:  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 test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:  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	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	:  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	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:  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.

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SECTION 10: Stability and reactivity

10.5 Incompatible materials	: <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	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: <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	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<input checked="" type="checkbox"/> AccuScript High Fidelity RT Glycerol	LD50 Oral	Rat	12600 mg/kg	-
RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<input checked="" type="checkbox"/> AccuScript High Fidelity RT Glycerol	12600	N/A	N/A	N/A	N/A
RNase Block Glycerol	12600	N/A	N/A	N/A	N/A
100 mM DTT 100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	33333.3 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A

Irritation/Corrosion

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SECTION 11: Toxicological information

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	-
RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary : Not available.

Sensitiser

Skin : **100 Mm DTT**: May cause skin sensitisation.

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)

Product/ingredient name	Category	Route of exposure	Target organs
100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

100 mM DTT	Not available.
AccuScript High Fidelity RT	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
10X AccuScript RT Buffer	Not available.
RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
Oligo(dT) Primer	Not available.
Random Primers	Not available.
100 mM DTT	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Inhalation

100 mM DTT	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

	100 mM DTT	No known significant effects or critical hazards.
Ingestion	: 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.
	100 mM DTT	No known significant effects or critical hazards.
Skin contact	: 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.
	100 mM DTT	No known significant effects or critical hazards.
Eye contact	: 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.
	100 mM DTT	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: 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.
Ingestion	: 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.

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SECTION 11: Toxicological information

Skin contact : 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.

Eye contact : 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

Conclusion/Summary : Not available.

General : 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.
 100 mM DTT No known significant effects or critical hazards.

Carcinogenicity : 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.
 100 mM DTT No known significant effects or critical hazards.

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Mutagenicity	: 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.
Reproductive toxicity	: 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.
Other information	: 100 mM DTT	Adverse symptoms may include the following: May cause sensitisation by skin contact.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
AccuScript High Fidelity RT Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
100 mM DTT (R*,R*) -1,4-Dimercaptobutane-2,3-diol	Acute LC50 27000 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i>	48 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
AccuScript High Fidelity RT Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
RNase Block Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Conclusion/Summary : Not available.

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SECTION 12: Ecological information

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

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
RNase-Free Water water	-1.38	-	Low
AccuScript High Fidelity RT Glycerol	-1.76	-	Low
RNase Block Glycerol	-1.76	-	Low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
RNase-Free Water water	Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : 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.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 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.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Label	:	<p>RNase-Free Water Not applicable.</p> <p>AccuScript High Fidelity RT Not applicable.</p> <p>10X AccuScript RT Buffer Not applicable.</p> <p>RNase Block Not applicable.</p> <p>100 mM dNTP Mix (25 mM each dNTP) Not applicable.</p> <p>Oligo(dT) Primer Not applicable.</p> <p>Random Primers Not applicable.</p>
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AccuScript High Fidelity 1st Strand cDNA Synthesis Kit

SECTION 15: Regulatory information

100 mM DTT

Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : All components are active or exempted.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 N/A = Not available
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Not classified.	

Full text of abbreviated H statements

100 mM DTT	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications

AccuScript High Fidelity 1st Strand cDNA Synthesis Kit

SECTION 16: Other information

100 mM DTT	
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Notice to reader

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