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# **SAFETY DATA SHEET**



AffinityScript Multiple Temperature cDNA Synthesis Kit

# Section 1. Identification

Product identifier	: AffinityScript Multiple Temperature cDNA Synthesis Kit
Part no. (chemical kit)	: 200436
Part no.	<ul> <li>RNase-Free Water</li> <li>AffinityScript Multiple Temperature Reverse</li> <li>Transcriptase</li> <li>AffinityScript RT buffer</li> <li>200420-54</li> </ul>
	RNase Block       200420-54         Oligo(dT) Primer       200820-56         Random Primers       200420-53         100 mM dNTP Mix (25 mM each dNTP)       200820-55
Relevant identified uses o	of the substance or mixture and uses advised against
Identified uses	<ul> <li>Imalytical reagent.</li> <li>Image: Pree Water</li> <li>AffinityScript Multiple Temperature Reverse</li> <li>Transcriptase</li> <li>10X AffinityScript RT buffer</li> <li>RNase Block</li> <li>Oligo(dT) Primer</li> <li>Random Primers</li> <li>100 mM dNTP Mix (25 mM each dNTP)</li> <li>12 ml</li> <li>1.2 ml</li> <li>0.05 ml (50 reactions)</li> <li>0.05 ml (50 reactions)</li> <li>0.05 ml (1000 U 40 U/µl)</li> <li>0.05 ml (25 µg 0.5 µg/µl)</li> <li>0.04 ml</li> </ul>
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
Emergency telephone number (with hours of operation)	: CHEMTREC®: 1-800-424-9300

### Section 2. Hazard identification

#### Classification of the substance or mixture

AffinityScript Multiple Temperature Reverse Transcriptase H320 RNase Block H320	EYE IRRITATION - Category 2 EYE IRRITATION - Category 2		
<u>GHS label elements</u> Signal word	: RNase-Free Water	No signal word.	
	AffinityScript Multiple Temperature Reverse Transcriptase	Warning	
	10X AffinityScript RT buffer RNase Block	No signal word. Warning	
	Oligo(dT) Primer	No signal word.	
	Random Primers	No signal word.	
	100 mM dNTP Mix (25 mM	No signal word.	
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# Section 2. Hazard identification

	each dNTP)	
Hazard statements	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	No known significant effects or critical hazards. H320 - Causes eye irritation.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	H320 - Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
Precautionary statements		
Prevention	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	Not applicable. Not applicable.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	Not applicable. Not applicable. Not applicable.
Response	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	10X AffinityScript RT buffer RNase Block	
	Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	Not applicable. Not applicable. Not applicable.
Storage	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	Not applicable. Not applicable.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	Not applicable. Not applicable. Not applicable.
Disposal	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	Not applicable. Not applicable.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	Not applicable. Not applicable. Not applicable.
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#### Section 2. Hazard identification

Supplemental label elements	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	None known. None known.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	None known. None known. None known. None known. None known.
	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%
Other hazards which do not result in classification	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	None known. None known.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	None known. None known. None known. None known. None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	Substance Mixture
	10X AffinityScript RT buffer	Mixture
	RNase Block	Mixture
	Oligo(dT) Primer	Mixture
	Random Primers	Mixture
	100 mM dNTP Mix (25 mM	Mixture
	each dNTP)	

Ingredient name	Synonyms	% (w/w)	CAS number
RNase-Free Water			
water	Water	100	7732-18-5
AffinityScript Multiple Temperature Reverse Transcriptase			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
<b>10X AffinityScript RT buffer</b> Potassium chloride	Potassium Chloride	≥5 - ≤10	7447-40-7
RNase Block			
Glycerol	Glycerol	≥30 - ≤60	56-81-5

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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### Section 3. Composition/information on ingredients

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

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

#### Section 4. First-aid measures

Description of necessary f	irst aid measures	
Eye contact	: RNase-Free Water	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get modical attention if irritation accure
	AffinityScript Multiple Temperature Reverse Transcriptase	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	10X AffinityScript 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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	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 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.
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.
	AffinityScript Multiple Temperature Reverse Transcriptase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist
	10X AffinityScript RT buffer	or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a
		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
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		position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	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
	100 mM dNTP Mix (25 mM each dNTP)	attention if symptoms occur. 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.
Skin contact	: RNase-Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	AffinityScript Multiple Temperature Reverse Transcriptase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	10X AffinityScript 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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 dNTP Mix (25 mM each dNTP)	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.
	AffinityScript Multiple Temperature Reverse Transcriptase	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If

	10X AffinityScript RT buffer	unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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
	RNase Block	personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,
	Oligo(dT) Primer	belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Random Primers	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	100 mM 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.
Most important symptoms/effe	cts, acute and delayed	
<u>Potential acute health effects</u> Eye contact :	RNase-Free Water AffinityScript Multiple Temperature Reverse	No known significant effects or critical hazards. Causes eye irritation.
	Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation :	RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	No known significant effects or critical hazards. No known significant effects or critical hazards.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers	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.

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AffinityScript Multiple Temperature Reverse Transcriptase       No known significant effects or critical hazards No specific data.			No known significant effects or critical hazards.
RNase Block       No known significant effects or critical hazards         No known significant effects or critical hazards       No known significant effects or critical hazards         Ingestion       IRNase-Free Water       No known significant effects or critical hazards         AffinityScript Multiple       No known significant effects or critical hazards         Transcriptase       No known significant effects or critical hazards         102 wd AUTP       No known significant effects or critical hazards         No known significant effects or critical hazards       No known significant effects or critical hazards         Oligo(dT) Primer       No known significant effects or critical hazards         No known significant effects or critical hazards       No known significant effects or critical hazards         Oligo(dT) Primer       No known significant effects or critical hazards         No specific data.       Adverse symptoms may include the following: irritation         watering       redness         10X AffinityScript RT buffer       No specific data.         Radom Primers       No specific data.         10X AffinityScript RT buffer       No specific data.         Radom Primers       No specific data.         10X AffinityScript RT buffer       No specific data.         Radom Primers       No specific data.         100 mM dNTP Mix (25 mM	Skin contact	AffinityScript Multiple Temperature Reverse Transcriptase	No known significant effects or critical hazards. No known significant effects or critical hazards.
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Date of issue/Date of revision : 05/22/2024 Date of previous issue : 05/24/2021 Version : 7		each dNTP)	·
	ate of issue/Date of revision	: 05/22/2024 Date of previous i	issue : 05/24/2021 Version : 7

Ingestion	: RNase-Free Water AffinityScript Multiple Temperature Reverse	No specific data. No specific data.
	Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No specific data. No specific data. No specific data. No specific data. No specific data.
Indication of immediate med	ical attention and special treat	<u>ment needed, if necessary</u>
Notes to physician	: RNAse-Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical
	RNase Block	surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	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 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.
Specific treatments	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	No specific treatment. No specific treatment.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: RNase-Free Water	No action shall be taken involving any personal risk or without suitable training.
	AffinityScript Multiple Temperature Reverse Transcriptase	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	10X AffinityScript 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Oligo(dT) Primer	No action shall be taken involving any personal risk or without suitable training.
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Random Primers

100 mM dNTP Mix (25 mM each dNTP)

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

#### Extinguishing media : RNase-Free Water Suitable extinguishing Use an extinguishing agent suitable for the surrounding fire. media Use an extinguishing agent suitable for the AffinityScript Multiple **Temperature Reverse** surrounding fire. Transcriptase 10X AffinityScript RT buffer Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the **RNase Block** surrounding fire. Use an extinguishing agent suitable for the Oligo(dT) Primer surrounding fire. Random Primers Use an extinguishing agent suitable for the surrounding fire. 100 mM dNTP Mix (25 mM Use an extinguishing agent suitable for the each dNTP) surrounding fire. : RNase-Free Water None known. **Unsuitable extinguishing** AffinityScript Multiple media None known. **Temperature Reverse** Transcriptase 10X AffinityScript RT buffer None known. RNase Block None known. Oligo(dT) Primer None known. Random Primers None known. 100 mM dNTP Mix (25 mM None known. each dNTP) Specific hazards arising : RNase-Free Water In a fire or if heated, a pressure increase will occur from the chemical and the container may burst. In a fire or if heated, a pressure increase will occur AffinityScript Multiple **Temperature Reverse** and the container may burst. Transcriptase 10X AffinityScript 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. 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. In a fire or if heated, a pressure increase will occur 100 mM dNTP Mix (25 mM each dNTP) and the container may burst. Hazardous thermal RNase-Free Water No specific data. AffinityScript Multiple Decomposition products may include the following decomposition products Temperature Reverse materials: Transcriptase carbon dioxide carbon monoxide 10X AffinityScript RT buffer Decomposition products may include the following materials: Date of issue/Date of revision : 05/22/2024 :05/24/2021 Version :7 9/31 Date of previous issue

# Section 5. Fire-fighting measures

	9	eerben dievide
		carbon dioxide carbon monoxide
		nitrogen oxides
		halogenated compounds
		metal oxide/oxides
	RNase Block	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
	Oligo(dT) Primer	No specific data.
	Random Primers	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		nitrogen oxides
		phosphorus oxides
Special protective actions or 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.
	AffinityScript Multiple	Promptly isolate the scene by removing all persons
	Temperature Reverse	from the vicinity of the incident if there is a fire. No
	Transcriptase	action shall be taken involving any personal risk or
	-	without suitable training.
	10X AffinityScript 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.
	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 dNTP Mix (25 mM	Promptly isolate the scene by removing all persons
	each dNTP)	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	: RNase-Free Water	Fire-fighters should wear appropriate protective
equipment for fire-fighters		equipment and self-contained breathing apparatus
		(SCBA) with a full face-piece operated in positive
		pressure mode.
	AffinityScript Multiple	Fire-fighters should wear appropriate protective
	Temperature Reverse	equipment and self-contained breathing apparatus
	Transcriptase	(SCBA) with a full face-piece operated in positive
		pressure mode.
	10X AffinityScript RT buffer	Fire-fighters should wear appropriate protective
		equipment and self-contained breathing apparatus
		(SCBA) with a full face-piece operated in positive
		(SCBA) with a full face-piece operated in positive pressure mode.
	RNase Block	(SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective
		(SCBA) with a full face-piece operated in positive pressure mode.

### Section 5. Fire-fighting measures

	(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 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.

# 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 spilled material. Put on appropriate personal protective equipment.				
	AffinityScript Multiple Temperature Reverse Transcriptase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.				
	10X AffinityScript RT buffer	Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.				
	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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled 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 spilled 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 spilled material. Put on appropriate personal
For emergency responders	: RNase-Free Water	protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	AffinityScript Multiple	If specialized clothing is required to deal with the
	Temperature Reverse	spillage, take note of any information in Section 8 on
	Transcriptase	suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	10X AffinityScript RT buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	RNase Block	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Oligo(dT) Primer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
	Random Primers	information in "For non-emergency personnel". If specialized clothing is required to deal with the
	Random Filmers	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	If specialized clothing is required to deal with the
	each dNTP)	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
Environmental precautions	: <b>R</b> Nase-Free Water	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,
		soil or air).
	AffinityScript Multiple	Avoid dispersal of spilled material and runoff and
	Temperature Reverse	contact with soil, waterways, drains and sewers.
	Transcriptase	Inform the relevant authorities if the product has
		caused environmental pollution (sewers, waterways, soil or air).
	10X AffinityScript RT buffer	Avoid dispersal of spilled material and runoff and
		contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		caused environmental pollution (sewers, waterways,
		soil or air).
	RNase Block	Avoid dispersal of spilled material and runoff and
		contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		caused environmental pollution (sewers, waterways, soil or air).
	Oligo(dT) Primer	Avoid dispersal of spilled material and runoff and
		contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		caused environmental pollution (sewers, waterways,
		soil or air).
	Random Primers	Avoid dispersal of spilled material and runoff and
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# Section 6. Accidental release measures

	100 mM dNTP Mix (25 mM each dNTP)	contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ontainment 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.
	AffinityScript Multiple Temperature Reverse Transcriptase	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 AffinityScript 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
	RNase Block	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.
	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 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 7. Handling and storage

Precautions for safe handling		
Protective measures :	RNase-Free Water	Put on appropriate personal protective equipment (see Section 8).
	AffinityScript Multiple Temperature Reverse Transcriptase	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	10X AffinityScript RT buffer	Put on appropriate personal protective equipment (see Section 8).
	RNase Block	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	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 dNTP Mix (25 mM each dNTP)	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.
	AffinityScript Multiple Temperature Reverse Transcriptase	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 AffinityScript 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 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

# Section 7. Handling and storage

3	)	
	Random Primers	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove
	100 mM dNTP Mix (25 mM each dNTP)	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	RNase-Free Water	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	AffinityScript Multiple Temperature Reverse Transcriptase	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
	10X AffinityScript RT buffer	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
	RNase Block	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid

### Section 7. Handling and storage

Oligo(dT) Primer	environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
Random Primers	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
AffinityScript Multiple Temperature Reverse Transcriptase Glycerol	Exposure limitsCA Alberta Provincial (Canada, 3/2023).OEL: 10 mg/m³ 8 hours. Form: MistCA Quebec Provincial (Canada, 9/2023).TWAEV: 10 mg/m³ 8 hours. Form: mistCA Saskatchewan Provincial (Canada, 4/2021).STEL: 20 mg/m³ 15 minutes. Form: mistTWA: 10 mg/m³ 8 hours. Form: mistCA British Columbia Provincial (Canada, 8/2023).TWA: 3 mg/m³ 8 hours. Form: respirablemistTWA: 3 mg/m³ 8 hours. Form: respirablemistTWA: 10 mg/m³ 8 hours. Form: respirablemistTWA: 10 mg/m³ 8 hours. Form: respirable
RNase Block	
Date of issue/Date of revision : 05/22/2024 Date of previous issue	: 05/24/2021 Version : 7 16/3

# Section 8. Exposure controls/personal protection

Glycerol	CA Alberta Provincial (Canada, 3/2023).
	OEL: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
	CA Quebec Provincial (Canada, 9/2023).
	TWAEV: 10 mg/m <sup>3</sup> 8 hours. Form: mist
	CA Saskatchewan Provincial (Canada,
	4/2021).
	STEL: 20 mg/m <sup>3</sup> 15 minutes. Form: mist
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: mist
	CA British Columbia Provincial (Canada,
	8/2023).
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: respirable
	mist
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total mist

#### **Biological exposure indices**

No exposure indices known.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>res</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

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

<u>Appearance</u>		
Physical state	<ul> <li>RNase-Free Water</li> <li>AffinityScript Multiple</li> <li>Temperature Reverse</li> <li>Transcriptase</li> <li>10X AffinityScript RT buffer</li> <li>RNase Block</li> <li>Oligo(dT) Primer</li> <li>Random Primers</li> <li>100 mM dNTP Mix (25 mM</li> </ul>	Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid.
Color	each dNTP) RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	Colorless. Not available. Not available. Not available. Not available. Not available.
Odor	<ul> <li>RNase-Free Water</li> <li>AffinityScript Multiple</li> <li>Temperature Reverse</li> <li>Transcriptase</li> <li>10X AffinityScript RT buffer</li> <li>RNase Block</li> <li>Oligo(dT) Primer</li> <li>Random Primers</li> <li>100 mM dNTP Mix (25 mM each dNTP)</li> </ul>	Odorless. Not available. Not available. Not available. Not available. Not available. Not available.
Odor threshold	<ul> <li>RNase-Free Water</li> <li>AffinityScript Multiple</li> <li>Temperature Reverse</li> <li>Transcriptase</li> <li>10X AffinityScript RT buffer</li> <li>RNase Block</li> <li>Oligo(dT) Primer</li> <li>Random Primers</li> <li>100 mM dNTP Mix (25 mM each dNTP)</li> </ul>	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
pH	RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	7 8 8.3 7.6 7.5 7.5 7.5

# Section 9. Physical and chemical properties and safety characteristics

enaraeteristics							
Melting point/freezing point	Temperature Reve	AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM		0°C (32°F) Not available.			
	10X AffinityScript F RNase Block Oligo(dT) Primer Random Primers			Not available. Not available. 0°C (32°F) 0°C (32°F) Not available.			
Boiling point, initial boiling point, and boiling range	: RNase-Free Water AffinityScript Multip Temperature Reve	le	100°C( Not ava	,			
	10X AffinityScript F RNase Block Oligo(dT) Primer Random Primers	Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM		Not available. Not available. 100°C (212°F) 100°C (212°F) Not available.			
Flash point	:		Closed cup			Open	cup
	Ingredient name	°C	°F	Method	°C	°F	Method
	AffinityScript Multiple Temperature Reverse Transcriptase						
	Glycerol RNase Block	-	-	-	177	350.6	-
	Glycerol	_	_	_	177	350.6	_
Evaporation rate	: RNase-Free Water AffinityScript Multip Temperature Reve Transcriptase 10X AffinityScript F RNase Block Oligo(dT) Primer Random Primers	RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM		Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.			
Flammability	: RNase-Free Water AffinityScript Multip Temperature Reve Transcriptase 10X AffinityScript F RNase Block Oligo(dT) Primer Random Primers	RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM		Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.			

### Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion	: RNase-Free Water	Not available.
limit/flammability limit	AffinityScript Multiple	Not available.
	Temperature Reverse	
	Transcriptase	
	10X AffinityScript RT buffer	Not available.
	RNase Block	Not available.
	Oligo(dT) Primer	Not available.
	Random Primers	Not available.
	100 mM dNTP Mix (25 mM	Not available.
	each dNTP)	
Vapor pressure	: RNase-Free Water	2.3 kPa (17.5 mm Hg) [room t

#### Vapor pressure

2.3 kPa (1	7.5 mm Hg) [room t	temperature]
12.3 kPa (	(92.258 mm Hg) [50	°C (122°F)]

	Vapor		re at 20°C			re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
AffinityScript Multiple Temperature Reverse Transcriptase						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
10X AffinityScript 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	-
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 dNTP Mix (25 mM each dNTP)						
water	17.5	2.3	-	92.258	12.3	-

# Section 9. Physical and chemical properties and safety characteristics

Relative vapor density	: RNase-Free Water AffinityScript Multiple	0.62 [Air = Not availat			
	Temperature Reverse	i tot a ranar			
	Transcriptase 10X AffinityScript RT buffer	Not availab	ole.		
	RNase Block Oligo(dT) Primer	Not availat Not availat			
	Random Primers	Not availab			
	100 mM dNTP Mix (25 mM each dNTP)	Not availab			
Relative density	: RNase-Free Water AffinityScript Multiple Temperature Reverse	1 Not availat	ble.		
	Transcriptase 10X AffinityScript RT buffer	Not availab	ole.		
	RNase Block	Not availab			
	Oligo(dT) Primer Random Primers	Not availat Not availat			
	100 mM dNTP Mix (25 mM each dNTP)	Not availab			
Solubility(ies)	: Media		Result		
	RNase-Free Water		Soluble		
		water AffinityScript Multiple Temperature			
	Reverse Transcriptase				
	water		Soluble		
	10X AffinityScript RT buffer water RNase Block		Soluble		
	water Oligo(dT) Primer		Soluble		
	water Random Primers		Soluble		
	water		Soluble		
	100 mM dNTP Mix (25 mM water	-	Soluble		
Partition coefficient: n- octanol/water	: RNase-Free Water AffinityScript Multiple Temperature Reverse	-1.38 Not applica	able.		
	Transcriptase 10X AffinityScript RT buffer	Not applica	able.		
	RNase Block	Not applica	cable.		
	Oligo(dT) Primer Random Primers	Not applica Not applica			
	100 mM dNTP Mix (25 mM each dNTP)	Not applica			
Auto-ignition temperature	: Ingredient name	°C	°F	Method	
	AffinityScript Multiple Temperature Reverse Transcriptase				
	Glycerol	370	698	-	
	RNase Block				
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# Section 9. Physical and chemical properties and safety characteristics

	Glycerol	370	698	-
	-			
Decomposition temperature	RNase-Free Water	Not available.		
	AffinityScript Multiple	Not available.		
	Temperature Reverse			
	Transcriptase	<b>N N N N N N N N N N</b>		
	10X AffinityScript RT buffer	Not available.		
	RNase Block	Not available.		
	Oligo(dT) Primer	Not available.		
	Random Primers	Not available.		
	100 mM dNTP Mix (25 mM each dNTP)	Not available.		
Viscosity	RNase-Free Water	Not available.		
-	AffinityScript Multiple	Not available.		
	Temperature Reverse			
	Transcriptase			
	10X AffinityScript RT buffer	Not available.		
	RNase Block	Not available.		
	Oligo(dT) Primer	Not available.		
	Random Primers	Not available.		
	100 mM dNTP Mix (25 mM each dNTP)	Not available.		
Particle characteristics				
Median particle size	RNase-Free Water	Not applicable		
	AffinityScript Multiple	Not applicable	-	
	Temperature Reverse			
	Transcriptase	Not oppligable		
	10X AffinityScript RT buffer RNase Block	Not applicable		
	Oligo(dT) Primer	Not applicable Not applicable		
	Random Primers	Not applicable		
	100 mM dNTP Mix (25 mM	Not applicable		
	each dNTP)		•	

# Section 10. Stability and reactivity

Reactivity	: RNase-Free Water	No specific test data related to reactivity available for this product or its ingredients.
	AffinityScript Multiple	No specific test data related to reactivity available for
	Temperature Reverse Transcriptase	this product or its ingredients.
	10X AffinityScript 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 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 dNTP Mix (25 mM each dNTP)	No specific test data related to reactivity available for this product or its ingredients.

# Section 10. Stability and reactivity

Section 10. Stabin	ity and reactivity	
Chemical stability	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block	The product is stable. The product is stable. The product is stable. The product is stable.
	Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	The product is stable. The product is stable.
Possibility of hazardous reactions	: RNase-Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
	AffinityScript Multiple Temperature Reverse Transcriptase	Under normal conditions of storage and use, hazardous reactions will not occur.
	10X AffinityScript RT buffer	hazardous reactions will not occur.
	RNase Block	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 dNTP Mix (25 mM each dNTP)	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	No specific data. No specific data.
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No specific data. No specific data. No specific data.
Incompatible materials	: RNase-Free Water AffinityScript Multiple Temperature Reverse	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
	Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
Hazardous decomposition products	: RNase-Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b></b>		

### Section 10. Stability and reactivity

RNase Block	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 dNTP Mix (25 mM each dNTP)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### Section 11. Toxicological information

#### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
AffinityScript Multiple				
Temperature Reverse				
Transcriptase				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
10X AffinityScript RT				
buffer				
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
RNase Block				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AffinityScript Multiple Temperature Reverse					
Transcriptase					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
10X AffinityScript RT buffer					
Potassium chloride	Eyes - 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	-

**Sensitization** 

Not available.

#### **Mutagenicity**

**Carcinogenicity** 

**Conclusion/Summary** : Not available.

: Not available.

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**Conclusion/Summary** 

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:05/24/2021

Reproductive toxicity         Conclusion/Summary         Teratogenicity         Conclusion/Summary         Specific target organ toxic         Not available.	<ul> <li>Not available.</li> <li>Not available.</li> </ul>	
<u>Specific target organ toxic</u> Not available.	<u>ity (repeated exposure)</u>	
Aspiration hazard Not available.		
Information on the likely routes of exposure	<ul> <li>RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block</li> <li>Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)</li> </ul>	Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Not available. Not available.
Potential acute health effect	,	
Eye contact	<ul> <li>RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)</li> </ul>	No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	<ul> <li>RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)</li> </ul>	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.

Ingestion	: RNase-Free Water AffinityScript Multiple Temperature Reverse	No known significant effects or critical hazards. No known significant effects or critical hazards.	
	Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.	
Symptoms related to the phys			
Eye contact	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	No specific data. Adverse symptoms may include the following:	
		irritation watering redness	
	10X AffinityScript RT buffer RNase Block	No specific data. Adverse symptoms may include the following: irritation watering redness	
	Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No specific data. No specific data. No specific data.	
Inhalation	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	No specific data. No specific data.	
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No specific data. No specific data. No specific data. No specific data. No specific data.	
Skin contact	<ul> <li>RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase</li> </ul>	No specific data. No specific data.	
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No specific data. No specific data. No specific data. No specific data. No specific data.	
Ingestion	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	No specific data. No specific data.	
	10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No specific data. No specific data. No specific data. No specific data. No specific data.	
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Delayed and immediate effects	s and also chronic effects from	<u>m short and long term exposure</u>
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 effect	<u>ets</u>	
General	<ul> <li>RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)</li> </ul>	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates

Des des st/in sure dis est a sure s	Oral (mark	Dermod	link al attinu	Induction.	In he left on
Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
AffinityScript Multiple Temperature Reverse					
Transcriptase					
Glycerol	12600	N/A	N/A	N/A	N/A
10X AffinityScript RT buffer					
10X AffinityScript RT buffer	46428.6	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
RNase Block					
Glycerol	12600	N/A	N/A	N/A	N/A

# Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
AffinityScript Multiple Temperature Reverse Transcriptase			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
10X AffinityScript RT buffe	-		
Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - <i>Pseudosida</i> <i>ramosa</i> - Neonate	48 hours
	Acute LC50 93000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	96 hours
RNase Block			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
AffinityScript Multiple Temperature Reverse Transcriptase				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
RNase Block Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>RNase-Free Water</b> water	-	-	Readily
<b>10X AffinityScript RT buffer</b> Potassium chloride	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
RNase-Free Water water	-1.38	-	Low
AffinityScript Multiple Temperature Reverse Transcriptase			
Glycerol	-1.76	-	Low
<b>10X AffinityScript RT buffer</b> Potassium chloride	-0.46	-	Low
RNase Block Glycerol	-1.76	-	Low

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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

#### Section 13. Disposal considerations

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

#### Section 14. Transport information

TDG / IMDG / IATA	: Not regulated.
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Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Date of issue/Date of revision

### Section 15. Regulatory information

#### Canadian lists

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

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

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** 

Not determined.All components are active or exempted.

#### Section 16. Other information

#### **History** : 05/22/2024 Date of issue/Date of revision Date of previous issue : 05/24/2021 Version : 7 : ATE = Acute Toxicity Estimate Key to abbreviations **BCF** = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HPR = Hazardous Products Regulations IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
AffinityScript Multiple Temperature Reverse Transcriptase EYE IRRITATION - Category 2B	Calculation method
RNase Block EYE IRRITATION - Category 2B	Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

### Section 16. Other information

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.