Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

Brilliant II QRT-PCR Core Reagent Kit - 1-Step - 10-pack

Section 1. Identification

	 Brilliant II QRT-PCR Core Reagent Kit - 1-S 600819 	tep - 10-pack
	 SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase 	600530-51 600530-53 600530-52 600530-55 600532-51 600810-52
Relevant identified uses of the	substance or mixture and uses advised ac	<u>ainst</u>
Identified uses	 Analytical reagent. SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase 	0.1 ml (500 U 5 U/ μl) 0.1 ml (100 μl 1 mM) 0.4 ml 1.5 ml 1.7 ml 0.4 ml (400 reactions)
Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402	
Emergency telephone number (with hours of operation)	: CHEMTREC®: +(61)-290372994	

Section 2. Hazard(s) identification

Classification of the substant	<u>ce or mixture</u>	
SureStart Taq DNA Polymerase		
H320	SERIOUS EYE DAMAGE/EYE I	RRITATION - Category 2B
50 mM Magnesium Chloride H412	LONG-TERM (CHRONIC) AQU	ATIC HAZARD - Category 3
Reverse Transcriptase H320	SERIOUS EYE DAMAGE/EYE I	RRITATION - Category 2B
GHS label elements		
Signal word	: SureStart Taq DNA Polymerase	WARNING
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	No signal word. No signal word.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	No signal word. No signal word. WARNING

Section 2. Hazard(s) identification

Section 2. Hazard(s		H220 Causas ave imitation
Hazard statements	: SureStart Taq DNA Polymerase	H320 - Causes eye irritation.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	H412 - Harmful to aquatic life with long lasting effects.No known significant effects or critical hazards.H320 - Causes eye irritation.
Precautionary statements		- <i>j</i>
Prevention	: SureStart Taq DNA Polymerase	Not applicable.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	Not applicable. Not applicable.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	P273 - Avoid release to the environment. Not applicable. Not applicable.
Response	SureStart Taq DNA Polymerase	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.
	Reference Dye	Not applicable.
	20 mM dNTP Mix (5 mM each dNTP)	Not applicable.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer	Not applicable. Not applicable.
	Reverse Transcriptase	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.
Storage	: SureStart Taq DNA Polymerase	Not applicable.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	Not applicable. Not applicable.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer	Not applicable. Not applicable.
	Reverse Transcriptase	Not applicable.
Disposal	: SureStart Taq DNA Polymerase	Not applicable.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	Not applicable. Not applicable.
	50 mM Magnesium Chloride	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	10X Core RT-PCR Buffer Reverse Transcriptase	Not applicable.
Supplemental label elements	}	
Additional warning phrases	: SureStart Taq DNA Polymerase	Not applicable.
-	Reference Dye	Not applicable.
	20 mM dNTP Mix (5 mM each dNTP)	Not applicable.
	50 mM Magnesium Chloride	Not applicable.
	10X Core RT-PCR Buffer Reverse Transcriptase	Not applicable. Not applicable.

Section 2. Hazard(s) identification

Other hazards which do not result in classification	1	SureStart Taq DNA Polymerase	None known.
		Reference Dye	None known.
		20 mM dNTP Mix (5 mM each dNTP)	None known.
		50 mM Magnesium Chloride 10X Core RT-PCR Buffer	None known.
		Reverse Transcriptase	None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride	Mixture Mixture Mixture
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	Mixture Mixture Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
SureStart Taq DNA Polymerase		
Glycerol	≥30 - ≤60	56-81-5
50 mM Magnesium Chloride		
Magnesium chloride	<2.5	7786-30-3
Reverse Transcriptase		
Glycerol	≥30 - ≤60	56-81-5

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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary	<u>first aid measures</u>	
Eye contact	: SureStart Taq DNA Polymerase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Reference Dye	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.
	20 mM dNTP Mix (5 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.
	50 mM Magnesium Chlori	de 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.
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Section 4. First aid measures 10X Core RT-PCR 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. **Reverse Transcriptase** 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, det medical attention. Inhalation : SureStart Taq DNA Remove victim to fresh air and keep at rest in a Polymerase position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a Reference Dye 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. 20 mM dNTP Mix (5 mM Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical each dNTP) attention if symptoms occur. Remove victim to fresh air and keep at rest in a 50 mM Magnesium Chloride position comfortable for breathing. 10X Core RT-PCR 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. **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 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.

Skin contact

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. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 20 mM dNTP Mix (5 mM Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. 50 mM Magnesium Chloride Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 10X Core RT-PCR Buffer Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

SureStart Tag DNA

Polymerase

Reference Dye

each dNTP)

	Reverse Transcriptase	medical attention if symptoms occur. 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.
Ingestion	: ⊮ ureStart Taq DNA Polymerase	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Reference Dye	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.
	20 mM dNTP Mix (5 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.
	50 mM Magnesium Chloride	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.
	10X Core RT-PCR 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.
	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 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.

Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact	: SureStart Taq DNA Polymerase	Causes eye irritation.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation.
Inhalation	: SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards. No known significant effects or critical hazards.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>oms</u>	
Eye contact	: SureStart Taq DNA Polymerase	Adverse symptoms may include the following:
		irritation watering redness
	Reference Dye	No specific data.
	20 mM dNTP Mix (5 mM each dNTP)	No specific data.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer	No specific data. No specific data.
	Reverse Transcriptase	Adverse symptoms may include the following: irritation watering redness
Inhalation	: SureStart Taq DNA Polymerase	No specific data.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	No specific data. No specific data.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	No specific data. No specific data. No specific data.

Skin contact	: SureStart Taq DNA Polymerase	No specific data.
	Reference Dye	No specific data.
	20 mM dNTP Mix (5 mM each dNTP)	No specific data.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	No specific data. No specific data. No specific data.
Ingestion	: SureStart Taq DNA Polymerase	No specific data.
	Reference Dye	No specific data.
	20 mM dNTP Mix (5 mM each dNTP)	No specific data.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer	No specific data. No specific data.
	Reverse Transcriptase	No specific data.

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

Notes to physician	: SureStart Taq DNA Polymerase Treat symptomatically. Contact poison treatmen specialist immediately if large quantities have be ingested or inhaled.	
	Reference Dye In case of inhalation of decomposition products i fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	na
	20 mM dNTP Mix (5 mM each dNTP) Treat symptomatically. Contact poison treatmen specialist immediately if large quantities have be ingested or inhaled.	
	50 mM Magnesium Chloride Treat symptomatically. Contact poison treatmen specialist immediately if large quantities have be ingested or inhaled.	
	10X Core RT-PCR Buffer In case of inhalation of decomposition products i fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	na
	Reverse Transcriptase Treat symptomatically. Contact poison treatmen specialist immediately if large quantities have be ingested or inhaled.	
Specific treatments	: SureStart Taq DNA No specific treatment. Polymerase	
	Reference Dye No specific treatment. 20 mM dNTP Mix (5 mM No specific treatment. each dNTP)	
	50 mM Magnesium Chloride No specific treatment. 10X Core RT-PCR Buffer No specific treatment. Reverse Transcriptase No specific treatment.	
Protection of first-aiders	: SureStart Taq DNA Polymerase No action shall be taken involving any personal r or without suitable training. It may be dangerous the person providing aid to give mouth-to-mouth resuscitation.	s to
	Reference Dye No action shall be taken involving any personal r or without suitable training.	isk
	20 mM dNTP Mix (5 mM No action shall be taken involving any personal r	isk
	each dNTP) or without suitable training. 50 mM Magnesium Chloride No action shall be taken involving any personal r or without suitable training.	isk
	10X Core RT-PCR Buffer No action shall be taken involving any personal r or without suitable training.	isk
	Reverse Transcriptase No action shall be taken involving any personal r or without suitable training. It may be dangerous the person providing aid to give mouth-to-mouth resuscitation.	s to

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See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	 SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride Use an extinguishing agent suitable for the surrounding fire.
	10X Core RT-PCR BufferUse an extinguishing agent suitable for the surrounding fire.Reverse TranscriptaseUse an extinguishing agent suitable for the
Unsuitable extinguishing media	surrounding fire. : SureStart Taq DNA None known. Polymerase Reference Dye None known.
	20 mM dNTP Mix (5 mM None known. each dNTP) 50 mM Magnesium Chloride None known.
	10X Core RT-PCR Buffer None known. Reverse Transcriptase None known.
Specific hazards arising from the chemical	 SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 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 and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
	 50 mM Magnesium Chloride In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmfu to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. 10X Core RT-PCR Buffer In a fire or if heated, a pressure increase will occur
	and the container may burst. Reverse Transcriptase In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: SureStart Taq DNA Polymerase Carbon dioxide carbon monoxide
	Reference Dye Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	20 mM dNTP Mix (5 mMNo specific data.each dNTP)50 mM Magnesium ChlorideDecomposition products may include the following
	materials: halogenated compounds metal oxide/oxides
	10X Core RT-PCR Buffer Decomposition products may include the following materials:
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Section 5. Firefighting measures

Special protective actions : SureStart Taq DNA 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 actions : SureStart Taq DNA 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. Reference Dye 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. 20 mM dNTP Mix (5 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. 50 mM Magnesium Chhorize 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 Core RT-PCR Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Special protective equipment for fire-fighters : SureStart Taq DNA Prompti 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 and self-cont	 —	
for fire-fighters Polymerase from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Reference Dye 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. 20 mM dNTP Mix (5 mM each 0NTP) 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. 50 mM Magnesium Chloride 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 Core RT-PCR Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Special protective equipment for fire-fighters SureStart Taq DNA equipment for fire-fighters SureStart Taq DNA Perference Dye Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 20 mM Magnesium Chloride Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Special protective each MTP) SureStart Taq DNA	carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides Reverse Transcriptase Decomposition products may in materials: carbon dioxide	nclude the following
Special protective equipment for fire-fighters : SureStart Taq DNA 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 : SureStart Taq DNA 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 : SureStart Taq DNA 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 : SureStart Taq DNA 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 : SureStart Taq DNA Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 20 mM dNTP Mix (5 mM each dNTP) Eire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 20 mM Magnesium Chloride Fire-fighters should wear appropriate protective equipment and self-c	Polymerase from the vicinity of the incident action shall be taken involving	if there is a fire. No
20 mM dNTP Mix (5 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. 50 mM Magnesium Chloride 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 Core RT-PCR Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Special protective equipment for fire-fighters : SureStart Taq DNA equipment for fire-fighters : SureStart Taq DNA Reference Dye Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 20 mM dNTP Mix (5 mM each dNTP) Eire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 50 mM Magnesium Chloride Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 10X Core RT-PCR Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 10X Core RT-PCR Buffer Fire-fighters should wear a	Reference Dye Promptly isolate the scene by r from the vicinity of the incident action shall be taken involving	if there is a fire. No
50 mM Magnesium ChloridePromptly isolate the sciene 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 Core RT-PCR BufferPromptly 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: SureStart Taq DNA PolymerasePromptly 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: SureStart Taq DNA PolymeraseFire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.20 mM dNTP Mix (5 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.50 mM Magnesium ChlorideFire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.10X Core RT-PCR BufferFire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.10X Core RT-PCR BufferFire-fighters should wear appropriate protective equipment and self-contained breathing apparatus 	20 mM dNTP Mix (5 mM each dNTP)Promptly isolate the scene by r from the vicinity of the incident action shall be taken involving	if there is a fire. No
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Special protective equipment for fire-fightersReverse TranscriptasePromptly isolate the sciene 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: SureStart Taq DNA PolymeraseFire-fighters should wear appropriate protective 	10X Core RT-PCR Buffer Promptly isolate the scene by r from the vicinity of the incident action shall be taken involving	if there is a fire. No
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Reverse Transcriptase Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive	10X Core RT-PCR Buffer equipment and self-contained (SCBA) with a full face-piece o	breathing apparatus
	Reverse Transcriptase Fire-fighters should wear appro equipment and self-contained (SCBA) with a full face-piece o	breathing apparatus

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : SureStart Tag DNA For non-emergency No action shall be taken involving any personal risk Polymerase personnel or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Reference Dye 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. 20 mM dNTP Mix (5 mM No action shall be taken involving any personal risk each dNTP) 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. 50 mM Magnesium Chloride 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 Core RT-PCR 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. No action shall be taken involving any personal risk **Reverse Transcriptase** or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the For emergency responders : SureStart Taq DNA spillage, take note of any information in Section 8 on Polymerase suitable and unsuitable materials. See also the information in "For non-emergency personnel". Reference Dye 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". 20 mM dNTP Mix (5 mM If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on each dNTP) suitable and unsuitable materials. See also the information in "For non-emergency personnel". 50 mM Magnesium Chloride 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 Core RT-PCR 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". Reverse Transcriptase If specialised clothing is required to deal with the

Section 6. Accidental release measures

		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	SureStart Taq DNA Polymerase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or eir)
	Reference Dye	soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	20 mM dNTP Mix (5 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).
	50 mM Magnesium Chloride	,
	10X Core RT-PCR 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).
	Reverse Transcriptase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for c	ontainment and cleaning up	
Methods for cleaning up	: SureStart Taq DNA Polymerase	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste
	Reference Dye	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.
	20 mM dNTP Mix (5 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
	50 mM Magnesium Chloride	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.
	10X Core RT-PCR Buffer	Stop leak if without risk. Move containers from spill
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Section 6. Accidental release measures

Reverse Transcriptase	 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. 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.
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Section 7. Handling and storage

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Precautions for safe handling		
Protective measures :	₩ SureStart Taq DNA Polymerase	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
	20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	10X Core RT-PCR Buffer	Put on appropriate personal protective equipment (see Section 8).
	Reverse Transcriptase	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general : occupational hygiene	SureStart Taq DNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Reference Dye	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.
	20 mM dNTP Mix (5 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

Section 7. Handling and storage

Conditions for safe storage, including any : SureStart Taq DNA Polymerase Conditions for safe storage, including any : SureStart Taq DNA Polymerase Conditions for safe storage, including any : SureStart Taq DNA Polymerase Conditions for safe storage, including any : SureStart Taq DNA Polymerase Conditions for safe storage, including any : SureStart Taq DNA Polymerase Conditions for safe storage, including any including any includin		0	5	
10X Core RT-PCR 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 should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before 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 should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before 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 should be prohibited in areas where this material is handled. Conditions for safe storage, including any including any incompatibilities : SureStart Taq DNA Polymerase Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatibile materials (see Section 10 for incompatible materials (see Section 10 and food and drink. Keep container tighty closed and sealed until ready for use. Containers that have been opened must be carefully reseabed and keep turgint to avoid environmental containment. Suce should not shelled containers. Use appropriate container to avoid environmental container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials before handling or use. Store in accordance with local regulations. Store in accordance with local regulating or us			50 mM Magnesium Chloride	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
Reverse Transcriptase additional information on hygiene measures. Editional information on hygiene measures. Editional information on hygiene measures. Conditions for safe storage, including any incompatibilities : SureStart Taq DNA Polymerase Polymerase : SureStart Taq DNA Polymerase Store in accordance with local regulations. Store in original container tighty 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 container tighty 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 container tighty 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 container tighty 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 that have been opened must be carefully resealed and kept upright to avel denvironmental container tighty 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 container tighty 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 that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled container tighty closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to avoid environmental contamination.			10X Core RT-PCR Buffer	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
Including any incompatibilitiesPolymeraseoriginal 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 container tightly closed and sealed until ready for use. Containers 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 container tightly closed and sealed until ready for use. Containers. Use appropriate containment to avoid environmental container use.20 mM dNTP Mix (5 mM each dNTP)20 mM dNTP Mix (5 mM each dNTP)20 mM dNTP Mix (5 mM each dNTP)20 mM dNTP Mix (5 mM each dNTP)50 mM Magnesium Chloride50 mM Magnesium Chloride50 mM Magnesium Chloride50 mM Magnesium Chloride50 mM Magnesium ChlorideStore 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 before handling or use. Store in accordance with local regulations. Store in original container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to preve			Reverse Transcriptase	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
Reference DyeStore 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.20 mM dNTP Mix (5 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 containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled 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 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.50 mM Magnesium ChlorideStore 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.	including any	:		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
20 mM dNTP Mix (5 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. 50 mM Magnesium Chloride 50 mM Magnesium Chloride			Reference Dye	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
50 mM Magnesium Chloride 50 mm Magnesium Chlor				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
Date of issue/Date of revision : 22/05/2024 Date of previous issue : 24/05/2021 Version : 6 13/26	Date of issue/Date of revision			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

Section 7. Handling and storage

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

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SureStart Taq DNA Polymerase	
Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m ³ 8 hours.
Reverse Transcriptase	
Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m ³ 8 hours.

Biological exposure indices

No exposure indices known.

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Section 8. Exposure controls and personal protection

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	Ehemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	SureStart Taq DNA Polymerase	Liquid.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	Liquid. Liquid.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	Liquid. Liquid. Liquid.
Colour	SureStart Taq DNA Polymerase	Not available.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	Not available. Not available.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	Not available. Not available. Not available.
Odour	SureStart Taq DNA Polymerase	Not available.
	Reference Dye 20 mM dNTP Mix (5 mM each dNTP)	Not available. Not available.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	Not available. Not available. Not available.
	50 mM Magnesium Chloride 10X Core RT-PCR Buffer	Not available.

Section 9. Physical and chemical properties and safety characteristics

cnaracteristics									
Odour threshold	-	SureStart Taq DNA Polymerase		Not avail	able.				
		Reference Dye	Not avail						
		20 mM dNTP Mix (5 each dNTP)	mМ	Not avail	able.				
		50 mM Magnesium (Not avail					
		10X Core RT-PCR E		Not available. Not available.					
	_	Reverse Transcripta	se						
рН	-	SureStart Taq DNA Polymerase		Not available.					
		Reference Dye		8					
		20 mM dNTP Mix (5 each dNTP)	mΜ	Not avail	able.				
		50 mM Magnesium (Not avail					
				Not avail Not avail					
Molting point/froozing point		I		Not avail					
Melting point/freezing point	÷.	SureStart Taq DNA Polymerase							
		Reference Dye 20 mM dNTP Mix (5 each dNTP)	mМ	Not avail 0°C (32°					
		50 mM Magnesium (Chloride	0°C (32°	F)				
		10X Core RT-PCR E		Not avail	able.				
		Reverse Transcripta	se	Not avail					
Boiling point, initial boiling point, and boiling range	-	SureStart Taq DNA Polymerase		Not avail					
		Reference Dye 20 mM dNTP Mix (5	mМ	Not avail 100°C (2					
		each dNTP)		100 0 (2					
		50 mM Magnesium (100°C (2					
		10X Core RT-PCR Buffer		Not available.					
		Reverse Transcriptase		Not avail	abla				
Flash point	ι.	Reverse Transcripta	se	Not avail			Open		
Flash point	:			Closed	cup		Open o	-	
Flash point	:	Ingredient name	se °C			°C	Open o °F	cup Metho	d
Flash point	:			Closed	cup	°C		-	d
Flash point	:	Ingredient name SureStart Taq DNA Polymerase		Closed	cup		°F	-	d
Flash point	:	Ingredient name		Closed	cup	° C 177		-	d
Flash point	:	Ingredient name SureStart Taq DNA Polymerase Glycerol		Closed	cup		°F	-	d
Flash point	:	Ingredient name SureStart Taq DNA Polymerase		Closed	cup		°F	-	d
Flash point	:	Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase		Closed	cup	177	°F	-	d
		Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol		Closed of F	-		°F	-	d
Flash point	:	Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase		Closed	-	177	°F	-	d
	:	Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye	°C -	Closed of °F - Not avail Not avail	- able.	177	°F	-	d
	:	Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5	°C -	Closed of F	- able.	177	°F	-	d
	:	Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (5)	°C - - mM Chloride	Closed of °F - Not avail Not avail Not avail	- able. able. able.	177	°F	-	d
	:	Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP)	°C - - mM Chloride Buffer	Closed of °F - Not avail Not avail Not avail	- able. able. able. able.	177	°F	-	d
		Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10) 10X Core RT-PCR E Reverse Transcripta SureStart Taq DNA	°C - - mM Chloride Buffer	Closed of F Not avail Not avail Not avail Not avail Not avail	- able. able. able. able. able. able. able.	177	°F	-	d
Evaporation rate		Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10) 10X Core RT-PCR E Reverse Transcripta SureStart Taq DNA Polymerase	°C - - mM Chloride Buffer	Closed of F - Not avail	Able. able. able. able. able. able. able. able. able. able. able. able.	177	°F	-	d
Evaporation rate		Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10) 10X Core RT-PCR E Reverse Transcripta SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5)	°C - mM Chloride Buffer se	Closed of F - Not avail Not avail Not avail Not avail Not avail Not avail	Able. able. able. able. able. able. able. able. able. able. able. able. able.	177	°F	-	d
Evaporation rate		Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10) 10X Core RT-PCR E Reverse Transcripta SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10)	°C - - mM Chloride Buffer se mM Chloride	Closed of F - Not avail Not appli Not appli Not appli Not appli Not appli	- able. able. able. able. able. able. able. able. able. able. able. able. able. able. able. able.	177	°F	-	d
Evaporation rate		Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10) 10X Core RT-PCR E Reverse Transcripta SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10)	°C - - mM Chloride Buffer se mM Chloride Buffer	Closed of F - Not avail Not avail Not avail Not avail Not avail Not avail Not appli Not appli Not appli Not appli Not appli Not appli	- able. able. able. able. able. able. icable. icable. icable. icable. icable.	177	°F	-	d
Evaporation rate	:	Ingredient name SureStart Taq DNA Polymerase Glycerol Reverse Transcriptase Glycerol SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10) 10X Core RT-PCR E Reverse Transcripta SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 each dNTP) 50 mM Magnesium (10) 20 mM Magnesium	°C - - mM Chloride Buffer se mM Chloride Buffer	Closed o °F - Not avail Not avail Not avail Not avail Not avail Not avail Not appli Not appli Not appli Not appli Not appli	- able.	177	°F	-	d 16/26

Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion limit/flammability limit	: SureStart Taq DNA Polymerase	SureStart Taq DNA Polymerase			Not available.					
,						Not available. Not available.				
	50 mM Magnesium (50 mM Magnesium Chloride 10X Core RT-PCR Buffer		lable. lable. lable.						
Vapour pressure	:	Vapou			Vapour pressure at 50°C					
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method			
	SureStart Taq DNA Polymerase									
	water	17.5	2.3	-	92.258	12.3	-			
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-			
	Reference Dye									
	water	17.5	2.3	-	92.258	12.3	-			
	20 mM dNTP Mix (5 mM each dNTP)									
	water	17.5	2.3	-	92.258	12.3	-			
	50 mM Magnesium Chloride									
	water	17.5	2.3	-	92.258	12.3	-			
	10X Core RT-PCR Buffer									
	water	17.5	2.3	-	92.258	12.3	-			
	Reverse Transcriptase									
	water	17.5	2.3	-	92.258	12.3	-			
	Glycerol	0.000075	0.00001		0.0025	0.00033	-			
Relative vapour density	: SureStart Taq DNA Polymerase		Not avail							
	Reference Dye 20 mM dNTP Mix (5 each dNTP)	mМ	Not avail Not avail							
	each dNTP) 50 mM Magnesium Chloride Not available. 10X Core RT-PCR Buffer Not available. Reverse Transcriptase Not available.									

Section 9. Physical and chemical properties and safety characteristics

characteristics						
Relative density		SureStart Taq DNA Polymerase	Not availab	ole.		
	F	Reference Dye 20 mM dNTP Mix (5 mM	Not availab Not availab			
		each dNTP)	NUL availab	JE.		
		50 mM Magnesium Chloride	Not availab	ole.		
		10X Core RT-PCR Buffer	Not availab			
	F	Reverse Transcriptase	Not availab	ole.		
Solubility(ies)	:	Media		Re	sult	
	,	SureStart Taq DNA Polymer	ase			
		water		Solu	ıble	
		Reference Dye				
		water 20 mM dNTD Mix (5 mM acc		Solu	lple	
		20 mM dNTP Mix (5 mM eac water	in an rP)	Solu	uble	
		50 mM Magnesium Chloride	<u>,</u>	3010	JDIE	
		water		Solu	ıble	
		10X Core RT-PCR Buffer				
		water		Solu	ıble	
		Reverse Transcriptase				
	L	water		Solu	ible	
Partition coefficient: n-		SureStart Taq DNA	Not applica	able.		
octanol/water		Polymerase				
		Reference Dye 20 mM dNTP Mix (5 mM	Not applicable. Not applicable.			
		each dNTP)		abie.		
		50 mM Magnesium Chloride	Not applica	able.		
		10X Core RT-PCR Buffer	Not applicabl			
	ŀ	Reverse Transcriptase	Not applica	able.		<u>.</u>
Auto-ignition temperature	+	Ingredient name	°C		°F	Method
		SureStart Taq DNA Polymerase				
		Glycerol	370	(698	-
		Reverse Transcriptase				
		Glycerol	370	(698	-
Decomposition temperature		SureStart Taq DNA	Not availab			
		-	i tot a ranab	bie.		
		Polymerase				
	F	Reference Dye	Not availab	ole.		
	l 2	Reference Dye 20 mM dNTP Mix (5 mM		ole.		
	F 2 e	Reference Dye	Not availab	ole. ole.		
	i i i i i i i i i i i i i i i i i i i	Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer	Not availab Not availab Not availab Not availab	ole. ble. ble. ble.		
	 2 e t	Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	Not availab Not availab Not availab Not availab Not availab	ole. ole. ole. ole. ole.		
Viscosity	 	Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase SureStart Taq DNA	Not availab Not availab Not availab Not availab	ole. ole. ole. ole. ole.		
Viscosity	 	Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase	Not availab Not availab Not availab Not availab Not availab	ble. ble. ble. ble. ble. ble.		
Viscosity	 2 	Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM	Not availab Not availab Not availab Not availab Not availab Not availab	ole. ole. ole. ole. ole. ole.		
Viscosity	 	Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase SureStart Taq DNA Polymerase Reference Dye	Not availab Not availab Not availab Not availab Not availab Not availab	ole. ole. ole. ole. ole. ole. ole.		
Viscosity		Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer	Not availab Not availab Not availab Not availab Not availab Not availab Not availab Not availab Not availab	ole. ole. ole. ole. ole. ole. ole.		
Viscosity Particle characteristics		Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride	Not availab Not availab Not availab Not availab Not availab Not availab Not availab Not availab	ole. ole. ole. ole. ole. ole. ole.		

Section 9. Physical and chemical properties and safety characteristics

: SureStart Taq DNA Polymerase	Not applicable.
Reference Dye	Not applicable.
20 mM dNTP Mix (5 mM each dNTP)	Not applicable.
50 mM Magnesium Chloride	Not applicable.
10X Core RT-PCR Buffer Reverse Transcriptase	Not applicable. Not applicable.
	Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer

Section 10. Stability and reactivity

	,
Reactivity	 SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase 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. 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.
Chemical stability	: SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase The product is stable. The product is stable.
Possibility of hazardous reactions	 SureStart Taq DNA Polymerase Reference Dye Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. M dNTP Mix (5 mM each dNTP) M Magnesium Chloride 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.
Conditions to avoid	: SureStart Taq DNA No specific data. Polymerase Reference Dye No specific data. 20 mM dNTP Mix (5 mM No specific data. each dNTP) 50 mM Magnesium Chloride 10X Core RT-PCR Buffer No specific data. Reverse Transcriptase No specific data.

Section 10. Stability and reactivity

	<i>. . . .</i>	
Incompatible materials	: SureStart Taq DNA Polymerase	May react or be incompatible with oxidising materials.
	Reference Dye	May react or be incompatible with oxidising materials.
	20 mM dNTP Mix (5 mM each dNTP)	May react or be incompatible with oxidising materials.
	50 mM Magnesium Chlorid	e May react or be incompatible with oxidising materials.
	10X Core RT-PCR Buffer	May react or be incompatible with oxidising materials.
	Reverse Transcriptase	May react or be incompatible with oxidising materials.
Hazardous decomposition	: SureStart Taq DNA	Under normal conditions of storage and use,
products	Polymerase	hazardous decomposition products should not be produced.
	Reference Dye	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	20 mM dNTP Mix (5 mM	Under normal conditions of storage and use,
	each dNTP)	hazardous decomposition products should not be produced.
	50 mM Magnesium Chlorid	 Under normal conditions of storage and use, hazardous decomposition products should not be
		produced.
	10X Core RT-PCR Buffer	Under normal conditions of storage and use,
		hazardous decomposition products should not be
		produced.
	Reverse Transcriptase	Under normal conditions of storage and use,
		hazardous decomposition products should not be
		produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureStart Taq DNA				
Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	_
		, lot	12000 mg/ng	
50 mM Magnesium				
Chloride Manual a blanida		Det Mala	5 0000 m m/lem	
Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
Reverse Transcriptase				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureStart Taq DNA Polymerase					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Reverse Transcriptase					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Section 11. Toxicological information

Sensitisation

Not available.

<u>Mutagenicity</u>			
Conclusion/Summary	4	Not available.	
Carcinogenicity			
Conclusion/Summary	4	Not available.	
Reproductive toxicity			
Conclusion/Summary	÷	Not available.	
Teratogenicity			
Conclusion/Summary		Not available.	
Specific target organ toxicit	<u>у (</u>	<u>single exposure)</u>	
Not available.			
Specific target organ toxicit	<u>у (</u>	<u>repeated exposure)</u>	
Not available.			
Aspiration hazard			
Not available.			
Information on likely routes	:	SureStart Taq DNA	Routes of entry anticipated: Oral, Dermal, Inhalation,
of exposure		Polymerase Reference Dye	Eyes. Not available.
		20 mM dNTP Mix (5 mM	Not available.
		each dNTP)	
		50 mM Magnesium Chloride 10X Core RT-PCR Buffer	Not available. Not available.
		Reverse Transcriptase	Routes of entry anticipated: Oral, Dermal, Inhalation,
		•	Eyes.
Potential acute health effects	1		
Eye contact	1	SureStart Taq DNA Polymerase	Causes eye irritation.
		Reference Dye	No known significant effects or critical hazards.
		20 mM dNTP Mix (5 mM	No known significant effects or critical hazards.
		each dNTP) 50 mM Magnesium Chloride	No known significant effects or critical hazards.
		10X Core RT-PCR Buffer	No known significant effects or critical hazards.
		Reverse Transcriptase	Causes eye irritation.
Inhalation	÷	SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.
		20 mM dNTP Mix (5 mM	No known significant effects or critical hazards.
		each dNTP) 50 mM Magnesium Chloride	No known significant effects or critical hazards.
		10X Core RT-PCR Buffer	No known significant effects or critical hazards.
		Reverse Transcriptase	No known significant effects or critical hazards.
Skin contact	÷	SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.
		20 mM dNTP Mix (5 mM	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.

each dNTP)

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

Section 11. Toxicological information

	-	J	
Ingestion	:	SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
		Reference Dye	No known significant effects or critical hazards.
		20 mM dNTP Mix (5 mM	No known significant effects or critical hazards.
		each dNTP)	
		50 mM Magnesium Chloride	No known significant effects or critical hazards.
		10X Core RT-PCR Buffer	No known significant effects or critical hazards.
		Reverse Transcriptase	No known significant effects or critical hazards.
			No known signmount chools of ontiour huzurus.
Symptoms related to the phy	/sic	cal, chemical and toxicologic	al characteristics
Eye contact		SureStart Tag DNA	Adverse symptoms may include the following:
Lye contact	1	Polymerase	Adverse symptoms may include the following.
		Folymerase	irritation
			irritation
			watering
			redness
		Reference Dye	No specific data.
		20 mM dNTP Mix (5 mM	No specific data.
		each dNTP)	
		50 mM Magnesium Chloride	No specific data.
		10X Core RT-PCR Buffer	No specific data.
		Reverse Transcriptase	Adverse symptoms may include the following:
			irritation
			watering
			redness
Inhalation	1	SureStart Taq DNA	No specific data.
		Polymerase	
		Reference Dye	No specific data.
		20 mM dNTP Mix (5 mM	No specific data.
		each dNTP)	
		50 mM Magnesium Chloride	No specific data.
		10X Core RT-PCR Buffer	No specific data.
		Reverse Transcriptase	No specific data.
Skin contact		SureStart Tag DNA	No specific data.
		Polymerase	
		Reference Dye	No specific data.
		20 mM dNTP Mix (5 mM	No specific data.
		each dNTP)	
		50 mM Magnesium Chloride	No specific data.
		10X Core RT-PCR Buffer	No specific data.
		Reverse Transcriptase	No specific data.
Ingestion		SureStart Taq DNA	No specific data.
ingestion	1	Polymerase	No specific data.
		Reference Dye	No specific data.
		20 mM dNTP Mix (5 mM	No specific data.
		each dNTP)	אט שבטווע עמומ.
		50 mM Magnesium Chloride	No specific data.
		10X Core RT-PCR Buffer	No specific data.
			•
		Reverse Transcriptase	No specific data.

Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

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Date of issue/Date of revision
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: 22/05/2024

Date of previous issue

Section 11. Toxicological information

	- 5	
Potential chronic health effec	<u>ts</u>	
General	SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards.
	50 mM Magnesium Chloride	No known significant effects or critical hazards.
	10X Core RT-PCR Buffer	No known significant effects or critical hazards.
	Reverse Transcriptase	No known significant effects or critical hazards.
Carcinogenicity	SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards.
	50 mM Magnesium Chloride	No known significant effects or critical hazards.
	10X Core RT-PCR Buffer	No known significant effects or critical hazards.
	Reverse Transcriptase	No known significant effects or critical hazards.
Mutagenicity	SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards.
	50 mM Magnesium Chloride	No known significant effects or critical hazards.
	10X Core RT-PCR Buffer	No known significant effects or critical hazards.
	Reverse Transcriptase	No known significant effects or critical hazards.
Reproductive toxicity	SureStart Taq DNA Polymerase	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	20 mM dNTP Mix (5 mM each dNTP)	No known significant effects or critical hazards.
	50 mM Magnesium Chloride	No known significant effects or critical hazards.
	10X Core RT-PCR Buffer	No known significant effects or critical hazards.
	Reverse Transcriptase	No known significant effects or critical hazards.

Numerical measures of toxicity

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)
SureStart Taq DNA Polymerase Glycerol	12600	N/A	N/A	N/A	N/A
50 mM Magnesium Chloride Magnesium chloride	2800	N/A	N/A	N/A	N/A
Reverse Transcriptase Glycerol	12600	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
SureStart Taq DNA Polymerase			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
50 mM Magnesium Chloride			
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180000 µg/l Fresh water	Crustaceans - <i>Eudiaptomus</i> padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - <i>Lemna</i> aequinoctialis	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - <i>Daphnia hyalina -</i> Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
Reverse Transcriptase			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
SureStart Taq DNA Polymerase				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Reverse Transcriptase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
SureStart Taq DNA Polymerase Glycerol	-1.76	-	Low
Reverse Transcriptase Glycerol	-1.76	-	Low

Mobility in soil

Soil/water partition
coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

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

Section 14. Transport information

ADG / IMDG / IATA	Not regulated as Dangerous Goods according to the ADG Code .
	Not regulated as Durigerous Goods according to the ADG Gode .

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

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

0,	
Standard for the Uniform Scheduling of Med	dicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

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

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

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

Section 16. Any other relevant information

<u>History</u>	
Date of issue/Date of revision	: 22/05/2024
Date of previous issue	: 24/05/2021
Version	: 6
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Classification	Justification
SureStart Taq DNA Polymerase SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
50 mM Magnesium Chloride LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method
Reverse Transcriptase SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method

✓ Indicates information that has changed from previously issued version.

Notice to reader

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