SAFETY DATA SHEET



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

Section 1. Identification

1.1 Product identifier

: Brilliant II QRT-PCR Core Reagent Kit - 1-Step - 10-pack **Product name**

: 600819 Part no. (chemical kit)

: SureStart Taq DNA Polymerase Part no. 600530-51

> Reference Dye 600530-53 20 mM dNTP Mix (5 mM each dNTP) 600530-52 50 mM Magnesium Chloride 600530-55 10X Core RT-PCR Buffer 600532-51 Reverse Transcriptase 600810-52

Validation date : 5/22/2024

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

Identified uses : Analytical reagent.

> SureStart Taq DNA Polymerase 0.1 ml (500 U 5 U/ µl) Reference Dye 0.1 ml (100 µl 1 mM)

20 mM dNTP Mix (5 mM each dNTP) 0.4 ml 50 mM Magnesium Chloride 1.5 ml 10X Core RT-PCR Buffer 1.7 ml

Reverse Transcriptase 0.4 ml (400 reactions)

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : SureStart Tag DNA

Polymerase

Reference Dye

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

This SDS should be retained and available for employees

and other users of this product.

20 mM dNTP Mix (5 mM

10X Core RT-PCR Buffer

each dNTP)

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

This SDS should be retained and available for employees

and other users of this product.

50 mM Magnesium Chloride This material is considered hazardous by the OSHA

> Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

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Section 2. Hazards identification

This SDS should be retained and available for employees

and other users of this product.

Reverse Transcriptase This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

SureStart Taq DNA Polymerase

H320 EYE IRRITATION - Category 2B

50 mM Magnesium Chloride

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

Reverse Transcriptase

H320 EYE IRRITATION - Category 2B

2.2 GHS label elements

Signal word SureStart Taq DNA Polymerase Warning Reference Dye No signal word. No signal word.

20 mM dNTP Mix (5 mM each

dNTP)

50 mM Magnesium Chloride No signal word. 10X Core RT-PCR Buffer No signal word. Warning Reverse Transcriptase

H320 - Causes eye irritation. **Hazard statements** : SureStart Taq DNA Polymerase No known significant effects or critical hazards.

Reference Dye

20 mM dNTP Mix (5 mM each

dNTP)

50 mM Magnesium Chloride H412 - Harmful to aquatic life with long lasting

effects.

10X Core RT-PCR Buffer No known significant effects or critical hazards.

H320 - Causes eye irritation. Reverse Transcriptase

Precautionary statements

Prevention : SureStart Taq DNA Polymerase Not applicable. Reference Dye Not applicable.

20 mM dNTP Mix (5 mM each Not applicable.

dNTP)

50 mM Magnesium Chloride P273 - Avoid release to the environment. 10X Core RT-PCR Buffer Not applicable. Reverse Transcriptase Not applicable.

: SureStart Tag DNA Polymerase P305 + P351 + P338 - IF IN EYES: Rinse Response

> cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

No known significant effects or critical hazards.

rinsina.

P337 + P313 - If eye irritation persists: Get medical

advice or attention. Not applicable.

Reference Dye 20 mM dNTP Mix (5 mM each Not applicable.

dNTP) 50 mM Magnesium Chloride Not applicable. 10X Core RT-PCR Buffer 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

rinsina.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

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Section 2. Hazards identification

Storage	: 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	Not applicable.
	Reverse Transcriptase	Not applicable.
Disposal	: SureStart Taq DNA Polymerase	Not applicable.
	Reference Dye	Not applicable.
	20 mM dNTP Mix (5 mM each dNTP)	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	Not applicable.
	Reverse Transcriptase	Not applicable.
Supplemental label	: SureStart Taq DNA Polymerase	None known.
elements	Reference Dye	None known.
	20 mM dNTP Mix (5 mM each dNTP)	None known.
	50 mM Magnesium Chloride	None known.
	10X Core RT-PCR Buffer	None known.
	Reverse Transcriptase	None known.
2.3 Other hazards		
Hazards not otherwise	: SureStart Taq DNA Polymerase	None known.
classified	Reference Dye	None known.
	20 mM dNTP Mix (5 mM each dNTP)	None known.

Section 3. Composition/information on ingredients

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

Substance/mixture

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

None known.

None known.

None known.

%	CAS number
≥50 - ≤75	56-81-5
≤5	7447-40-7
<2.5	7786-30-3
	≥50 - ≤75

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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-

Section 4. First aid measures

Reverse Transcriptase

Glycerol

4 1	Description of	f necessarı	first aid	measures
4. I	Describilion o	ı ilecessai v	/ III St aiu	IIICasul Cs

Eye contact	: SureStart Taq DNA Polymerase	Immediately flush eyes with plenty of water,
		occasionally lifting the upper and lower eyelids.

	Continue to finse 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.

≥50 - ≤75

< 0.1

56-81-5

9036-19-5

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

Check for and remove any contact lenses.

medical attention if irritation occurs.

50 mM Magnesium Chloride Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get medical attention if irritation occurs.

10X 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, get medical attention.

Inhalation : SureStart Tag DNA Polymerase Remove victim to fresh air and keep at rest in a

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

collar, tie, belt or waistband.

Reference Dye 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

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20 mM dNTP Mix (5 mM each dNTP)

10X Core RT-PCR Buffer

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

of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a 50 mM Magnesium Chloride

position comfortable for breathing.

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.

: SureStart Tag DNA Polymerase **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.

Reference Dye Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

20 mM dNTP Mix (5 mM each

dNTP)

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

50 mM Magnesium Chloride Flush contaminated skin with plenty of water.

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

medical attention if symptoms occur.

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.

: SureStart Tag DNA Polymerase Ingestion

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

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Reference Dye

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. 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.

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

Eye contact

: SureStart Tag DNA Polymerase

Reference Dye

dNTP)

20 mM dNTP Mix (5 mM each

50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase

Causes eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards.

Inhalation SureStart Tag DNA Polymerase

Reference Dve

20 mM dNTP Mix (5 mM each

dNTP)

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.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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	t aid measures	A1 1 2 20 4 60 4 20 11 1
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 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.
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 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.
Over-exposure signs/	<u>symptoms</u>	
Eye contact	: SureStart Taq DNA Polymerase	Adverse symptoms may include the following:
		irritation
		watering
	D. C D	redness
	Reference Dye	No specific data.
	20 mM dNTP Mix (5 mM each dNTP)	No specific data.
	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	: SureStart Taq DNA Polymerase	No specific data.
imalation	Reference Dye	No specific data.
	20 mM dNTP Mix (5 mM each	No specific data.
	dNTP)	no opeome data.
	50 mM Magnesium Chloride	No specific data.
	10X Core RT-PCR Buffer	No specific data.
	Reverse Transcriptase	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	No specific data.
	10X Core RT-PCR Buffer	No specific data.
	Reverse Transcriptase	No specific data.
Ingestion	: SureStart Taq DNA Polymerase	No specific data.
	Reference Dye	No specific data.
	20 mM dNTP Mix (5 mM each	No specific data.

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

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

dNTP)

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No specific data.

No specific data. No specific data.

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: SureStart Tag DNA Polymerase Notes to physician Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

In case of inhalation of decomposition products in a Reference Dye

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 each

dNTP)

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

50 mM Magnesium Chloride Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

10X Core RT-PCR Buffer In case of inhalation of decomposition products in a

> fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Treat symptomatically. Contact poison treatment Reverse Transcriptase

specialist immediately if large quantities have been

ingested or inhaled.

Reference Dye

20 mM dNTP Mix (5 mM each

: SureStart Tag DNA Polymerase

dNTP)

50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase

No specific treatment. No specific treatment. No specific treatment.

No specific treatment. No specific treatment. No specific treatment.

Protection of first-aiders

Specific treatments

: SureStart Taq DNA Polymerase

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

No action shall be taken involving any personal risk Reference Dye

or without suitable training.

20 mM dNTP Mix (5 mM each

dNTP)

50 mM Magnesium Chloride

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.

10X Core RT-PCR Buffer No action shall be taken involving any personal risk

or without suitable training.

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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

: SureStart Tag 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.

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the 10X Core RT-PCR Buffer

surrounding fire.

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Section 5. Fire-fighting measures

Reverse Transcriptase Use an extinguishing agent suitable for the

surrounding fire.

Unsuitable extinguishing media

SureStart Tag DNA Polymerase

Reference Dye

20 mM dNTP Mix (5 mM each

dNTP)

50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase

None known. None known. None known.

None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: SureStart Tag DNA Polymerase

Reference Dye

20 mM dNTP Mix (5 mM each dNTP)

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

: SureStart Taq DNA Polymerase

Reverse Transcriptase

Hazardous thermal decomposition products 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.

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful 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.

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.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Reference Dye Decomposition products may include the following

> materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides No specific data.

20 mM dNTP Mix (5 mM each

dNTP)

50 mM Magnesium Chloride

Decomposition products may include the following

materials:

halogenated compounds metal oxide/oxides

10X Core RT-PCR Buffer Decomposition products may include the following

> materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

Reverse Transcriptase Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

5.3 Advice for firefighters

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Section 5. Fire-fighting measures

Special protective actions for fire-fighters

Special protective actions : SureStart Taq DNA Polymerase

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

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 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 Promp

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.

Reverse Transcriptase

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 Polymerase

Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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)

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 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.

Reverse Transcriptase

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

pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: SureStart Taq DNA Polymerase

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

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Section 6. Accidental release measures

Reference Dye

dNTP)

20 mM dNTP Mix (5 mM each

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

For emergency responders: SureStart Tag DNA Polymerase

Reference Dye

20 mM dNTP Mix (5 mM each dNTP)

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

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. 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. 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. 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. 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.

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". 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". 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". 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". 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". 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".

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Section 6. Accidental release measures

6.2 Environmental precautions

: SureStart Tag DNA Polymerase

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).

Reference Dye

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).

20 mM dNTP Mix (5 mM each

dNTP)

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).

50 mM Magnesium Chloride

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). Water polluting material. May be harmful to the environment if released in

large quantities.

10X Core RT-PCR 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).

Reverse Transcriptase

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).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

: SureStart Tag DNA Polymerase

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Reference Dye

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

disposal contractor.

50 mM Magnesium Chloride

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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: SureStart Taq DNA Polymerase

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

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with

not reuse container.

Put on appropriate personal protective equipment

(see Section 8).

20 mM dNTP Mix (5 mM each

dNTP)

Reference Dye

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 vapor 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 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.

Advice on general occupational hygiene : SureStart Taq DNA Polymerase

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. 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.

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20 mM dNTP Mix (5 mM each dNTP)

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

7.2 Conditions for safe storage, including any incompatibilities

: SureStart Tag DNA Polymerase

Reference Dye

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 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. 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. 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.

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. 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. 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

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Section 7. Handling and storage

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

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 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. 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.

7.3 Specific end use(s)

Recommendations

: 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 Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial sector specific solutions

SureStart Taq DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each dNTP) 50 mM Magnesium Chloride Industrial applications, Professional applications. Industrial applications, Professional applications. Not available.

Industrial applications, Professional applications.

50 mM Magnesium Chloride Not a 10X Core RT-PCR Buffer Not a Reverse Transcriptase Not a

Not available. Not available. Not available.

Not available.

Not available.

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Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SureStart Tag DNA Polymerase	
Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: respirable fraction TWA: 10 mg/m³ 8 hours. Form: total dust
Reference Dye Potassium chloride	None.
50 mM Magnesium Chloride Magnesium chloride	None.
10X Core RT-PCR Buffer Potassium chloride	None.
Reverse Transcriptase Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: respirable fraction TWA: 10 mg/m³ 8 hours. Form: total dust
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	None.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

Environmental exposure controls

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

Individual protection measures

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Section 8. Exposure controls/personal protection

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.

Not available.

Not available.

Not available.

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

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

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

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Odor threshold : SureStart Taq DNA Polymerase Not available. Reference Dye Not available. 20 mM dNTP Mix (5 mM each Not available. dNTP) Not available. 50 mM Magnesium Chloride 10X Core RT-PCR Buffer Not available. Reverse Transcriptase Not available. pН : SureStart Taq DNA Polymerase Not available. Reference Dye 20 mM dNTP Mix (5 mM each Not available. dNTP) 50 mM Magnesium Chloride Not available. 10X Core RT-PCR Buffer Not available. Reverse Transcriptase Not available. Melting point/freezing point SureStart Taq DNA Polymerase Not available. Reference Dye Not available. 20 mM dNTP Mix (5 mM each 0°C (32°F) dNTP) 50 mM Magnesium Chloride 0°C (32°F) 10X Core RT-PCR Buffer Not available. Reverse Transcriptase Not available. SureStart Taq DNA Polymerase **Boiling point, initial boiling** Not available. point, and boiling range Reference Dye Not available. 20 mM dNTP Mix (5 mM each 100°C (212°F) dNTP) 50 mM Magnesium Chloride 100°C (212°F) 10X Core RT-PCR Buffer Not available. Reverse Transcriptase Not available. Flash point Closed cup Open cup °F °C °C °F Method Ingredient name Method SureStart Tag DNA **Polymerase** Glycerol 177 350.6 Reverse **Transcriptase** 350.6 Glycerol 177 SureStart Taq DNA Polymerase **Evaporation rate** Not available. Reference Dye Not available. 20 mM dNTP Mix (5 mM each Not available. dNTP) 50 mM Magnesium Chloride Not available. 10X Core RT-PCR Buffer Not available. Reverse Transcriptase Not available. **Flammability** : SureStart Tag DNA Polymerase Not applicable.

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Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Reference Dye

dNTP)

20 mM dNTP Mix (5 mM each

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Reverse Transcriptase

Lower and upper explosion limit/flammability limit

: SureStart Taq DNA Polymerase Reference Dye

Not available. Not available.

20 mM dNTP Mix (5 mM each

Not available.

dNTP)

50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase

Not available. Not available. Not available.

Vapor pressure

Reverse Transcriptas	е	NOT 8	ivaliable.			
	Vapo	r Pressui	re at 20°C	Vapor 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 vapor density

: SureStart Taq DNA Polymerase Reference Dye

Not available. Not available. Not available.

20 mM dNTP Mix (5 mM each dNTP)

Not available.

50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase

Not available. Not available.

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		A					
Relative density		ureStart Taq DNA Polymerase	Not ava				
	Re	eference Dye	Not ava	Not available.			
	20	mM dNTP Mix (5 mM each	Not ava	ilable.			
	d١	NTP)					
) mM Magnesium Chloride	Not ava	ilable.			
		X Core RT-PCR Buffer	Not ava				
		everse Transcriptase	Not ava				
Solubility(ies)		edia	1	Result			
Columny (100)		,		Result			
		ureStart Taq DNA Polymerase		0-1-1-1-			
		ater		Soluble			
		eference Dye					
		ater		Soluble			
) mM dNTP Mix (5 mM each d	-				
		ater		Soluble			
	50) mM Magnesium Chloride					
	Wa	ater		Soluble			
	10	X Core RT-PCR Buffer					
	wa	ater		Soluble			
	Re	everse Transcriptase					
		ater		Soluble			
B 444							
Partition coefficient: n-		reStart Taq DNA Polymerase	Not app				
octanol/water		eference Dye	Not app				
		mM dNTP Mix (5 mM each	Not app	olicable.			
		NTP)					
) mM Magnesium Chloride	Not app				
		X Core RT-PCR Buffer	Not app				
	Re	everse Transcriptase	Not app	olicable.			
Auto-ignition temperature	: In	ngredient name	°C	°F	Method		
Auto-ignition temperature	_		°C	°F	Method		
Auto-ignition temperature	8	ureStart Taq DNA	°C	°F	Method		
Auto-ignition temperature	8		°C	°F	Method		
Auto-ignition temperature	S P	ureStart Taq DNA olymerase			Method		
Auto-ignition temperature	S P	ureStart Taq DNA	°C 370	°F 698	Method -		
Auto-ignition temperature	S P	ureStart Taq DNA olymerase			Method -		
Auto-ignition temperature	S P G	ureStart Taq DNA olymerase ilycerol			Method -		
Auto-ignition temperature	S P G	ureStart Taq DNA olymerase			Method -		
Auto-ignition temperature	P G R	ureStart Taq DNA olymerase slycerol everse Transcriptase			Method -		
	P G R	ureStart Taq DNA olymerase slycerol everse Transcriptase	370 370	698 698	Method -		
Auto-ignition temperature Decomposition temperature	Pro GR GS: Substitution of the substitution of	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase	370 370 Not ava	698 698 iilable.	Method -		
	PG R G: Su	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye	370 370 Not ava	698 698 ailable.	Method -		
	PGGRESCO	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each	370 370 Not ava	698 698 ailable.	-		
	PGGRGGSU	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP)	370 Not ava Not ava Not ava	698 698 iilable. iilable.	-		
	F G R G Su Re 20 dN 50	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride	370 Not ava Not ava Not ava	698 iilable. iilable. iilable.	-		
	F G R G 20 dN 50 10	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer	370 Not ava Not ava Not ava Not ava	698 iilable. iilable. iilable. iilable.	-		
Decomposition temperature	G R G Su Re 20 dN 500 100 Re	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase	370 Not ava Not ava Not ava Not ava Not ava Not ava	698 dilable. dilable. dilable. dilable. dilable.	-		
	G R G Su	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase ureStart Taq DNA Polymerase	370 Not ava	698 dilable. dilable. dilable. dilable. dilable. dilable. dilable.	-		
Decomposition temperature	S P G R G S C S C C C C C C C	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase ureStart Taq DNA Polymerase eference Dye	370 Not ava	698 dilable. dilable. dilable. dilable. dilable. dilable. dilable. dilable.	-		
Decomposition temperature	Si P G R G C C C C C C C C C	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each	370 Not ava	698 dilable. dilable. dilable. dilable. dilable. dilable. dilable. dilable.	-		
Decomposition temperature	Si P G R G C C C C C C C C C	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase ureStart Taq DNA Polymerase eference Dye	370 Not ava	698 dilable. dilable. dilable. dilable. dilable. dilable. dilable. dilable.			
Decomposition temperature	Si P G R G Si Si Si Si Si R Si Si	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each	370 Not ava	698 iilable. iilable. iilable. iilable. iilable. iilable. iilable. iilable. iilable.			
Decomposition temperature	S P G R G S C C C C C C C C C	ureStart Taq DNA olymerase slycerol everse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP)	370 Not ava	698 iilable. iilable. iilable. iilable. iilable. iilable. iilable. iilable.			
Decomposition temperature	G R G 20 dN 50 dN	ureStart Taq DNA olymerase slycerol severse Transcriptase slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM dNTP Mix (5 mM each NTP) 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride	370 Not ava	698 iilable. iilable. iilable. iilable. iilable. iilable. iilable. iilable. iilable.			
Decomposition temperature	G R G 20 dN 50 dN	ureStart Taq DNA olymerase Slycerol everse Transcriptase Slycerol ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer everse Transcriptase ureStart Taq DNA Polymerase eference Dye 0 mM dNTP Mix (5 mM each NTP) 0 mM dNTP Mix (5 mM each NTP) 0 mM dNTP Mix (5 mM each NTP) 0 mM Magnesium Chloride 0X Core RT-PCR Buffer	370 Not ava	698 iilable. iilable. iilable. iilable. iilable. iilable. iilable. iilable. iilable.			

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Median particle size

: SureStart Tag DNA Polymerase Reference Dye 20 mM dNTP Mix (5 mM each

dNTP)

50 mM Magnesium Chloride 10X Core RT-PCR Buffer Reverse Transcriptase

Not applicable. Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Section 10. Stability and reactivity

10.1 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.

10.2 Chemical stability

: SureStart Tag 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. The product is stable.

The product is stable. The product is stable. The product is stable.

10.3 Possibility of hazardous reactions

: SureStart Tag DNA Polymerase

Reference Dye

20 mM dNTP Mix (5 mM each dNTP)

50 mM 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.

10X Core RT-PCR Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Reverse Transcriptase Under normal conditions of storage and use.

hazardous reactions will not occur.

10.4 Conditions to avoid

: 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 data. No specific data. No specific data.

No specific data. No specific data. No specific data.

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Section 10. Stability and reactivity

Section 10. Stabili	ty and reactivity	
10.5 Incompatible materials	: SureStart Taq DNA Polymerase	May react or be incompatible with oxidizing materials.
	Reference Dye	May react or be incompatible with oxidizing materials.
	20 mM dNTP Mix (5 mM each dNTP)	May react or be incompatible with oxidizing materials.
	50 mM Magnesium Chloride	May react or be incompatible with oxidizing materials.
	10X Core RT-PCR Buffer	May react or be incompatible with oxidizing materials.
	Reverse Transcriptase	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: SureStart Taq DNA Polymerase	Under normal conditions of storage and use, 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 each dNTP)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	50 mM Magnesium Chloride	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

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureStart Taq DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Reference Dye Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
50 mM Magnesium Chloride Magnesium chloride	LD50 Dermal LD50 Oral	Rat - Male, Female Rat	>2000 mg/kg 2800 mg/kg	-
10X Core RT-PCR Buffer Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
Reverse Transcriptase Glycerol Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral LD50 Oral	Rat Rat	12600 mg/kg 2800 mg/kg	-

produced.

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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	-
Reference Dye					
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
10X Core RT-PCR Buffer					
Potassium chloride	Eyes - 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	-
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	mg 1 %	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary : Not available. Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: 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

Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes. Not available. Not available.

Not available. Not available.

Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

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Potential acute health effects

Eye contact : SureStart Tag DNA Polymerase Causes eve irritation.

> Reference Dye No known significant effects or critical hazards.

No known significant effects or critical hazards. 20 mM dNTP Mix (5 mM 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 Tag DNA Polymerase No known significant effects or critical hazards.

> No known significant effects or critical hazards. Reference Dye

> No known significant effects or critical hazards. 20 mM dNTP Mix (5 mM 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 No known significant effects or critical hazards. : SureStart Tag DNA Polymerase

No known significant effects or critical hazards. Reference Dye

20 mM dNTP Mix (5 mM each No known significant effects or critical hazards. dNTP)

50 mM Magnesium Chloride No known significant effects or critical hazards. No known significant effects or critical hazards. 10X Core RT-PCR Buffer No known significant effects or critical hazards. Reverse Transcriptase

SureStart Tag DNA Polymerase No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Reference Dve

20 mM dNTP Mix (5 mM each No known significant effects or critical hazards. dNTP)

50 mM Magnesium Chloride No known significant effects or critical hazards. 10X Core RT-PCR Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. Reverse Transcriptase

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : SureStart Taq DNA Polymerase Adverse symptoms may include the following:

> irritation watering redness

No specific data. Reference Dye

20 mM dNTP Mix (5 mM each No specific data. dNTP)

50 mM Magnesium Chloride No specific data. 10X Core RT-PCR Buffer No specific data.

Adverse symptoms may include the following: Reverse Transcriptase

> irritation watering redness

: SureStart Tag DNA Polymerase No specific data. Inhalation

Reference Dye No specific data. 20 mM dNTP Mix (5 mM each No specific data.

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 Polymerase No specific data. Reference Dye No specific data.

20 mM dNTP Mix (5 mM each No specific data. dNTP)

No specific data. 50 mM Magnesium Chloride 10X Core RT-PCR Buffer No specific data. Reverse Transcriptase No specific data.

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Ingestion : 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 data. No specific data.

No specific data.

No specific data. No specific data. No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

effects

: Not available.

Datastial

Potential delayed effects

: Not available.

Long term exposure

Carcinogenicity

Mutagenicity

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : SureStart Tag DNA Polymerase

Reference Dye

20 mM dNTP Mix (5 mM each

dNTP)

50 mM Magnesium Chloride 10X Core RT-PCR Buffer

Reverse Transcriptase
SureStart Tag DNA Polymerase

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 Reverse Transcriptase

Reproductive toxicity : 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 known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

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Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
SureStart Taq DNA Polymerase					
Glycerol	12600	N/A	N/A	N/A	N/A
Reference Dye					
Reference Dye	70270.3	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
50 mM Magnesium Chloride					
50 mM Magnesium Chloride	280000.0	250000	N/A	N/A	N/A
Magnesium chloride	2800	2500	N/A	N/A	N/A
10X Core RT-PCR Buffer					
10X Core RT-PCR Buffer	70270.3	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
Reverse Transcriptase					
Glycerol	12600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha[500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
SureStart Taq DNA Polymerase			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Reference Dye			
Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 1337000 μg/l Fresh water Acute LC50 9.68 mg/l Fresh water	Algae - Navicula seminulum Crustaceans - Pseudosida ramosa - Neonate	96 hours 48 hours
	Acute LC50 93000 µg/l Fresh water Acute LC50 509.65 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Danio rerio</i>	48 hours 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 - Eudiaptomus padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 32000 µg/l Fresh water Acute LC50 2120 mg/l Fresh water	Daphnia - <i>Daphnia hyalina</i> - Adult Fish - <i>Pimephales promelas</i>	48 hours 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
10X Core RT-PCR Buffer			

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96 hours 48 hours
48 hours
48 hours
96 hours
96 hours
96 hours
48 hours
48 hours 96 hours

12.2 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	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Reference Dye Potassium chloride	-	-	Readily
10X Core RT-PCR Buffer Potassium chloride	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
SureStart Taq DNA Polymerase Glycerol	-1.76	-	Low
Reference Dye Potassium chloride	-0.46	-	Low
10X Core RT-PCR Buffer Potassium chloride	-0.46	-	Low
Reverse Transcriptase Glycerol Poly(oxy-1,2-ethanediyl), .	-1.76 2.7	- 78.67	Low Low

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₱/illiant II QRT-PCR Core Reagent Kit - 1-Step - 10-pack Section 12. Ecological information alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. **IATA**

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations

: TSCA 8(a) PAIR: Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-. omega.-hydroxy-

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: Edetic acid

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Section 15. Regulatory information

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEALIST Observices

DEA List I Chemicals (Precursor Chemicals)

: Not listed

(Frecursor Chemicals)

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : SureStart Taq DNA Polymerase EYE IRRITATION - Category 2B

Reference Dye

20 mM dNTP Mix (5 mM each dNTP)

50 mM Magnesium Chloride

10X Core RT-PCR Buffer

Not applicable.

Not applicable.

Not applicable.

Reverse Transcriptase EYE IRRITATION - Category 2B

Composition/information on ingredients

Name	%	Classification
SureStart Taq DNA		
Polymerase Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Reference Dye Potassium chloride	≤5	EYE IRRITATION - Category 2B
10X Core RT-PCR Buffer Potassium chloride	≤5	EYE IRRITATION - Category 2B
Reverse Transcriptase Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B

State regulations

Massachusetts : The following components are listed: GLYCERINE MIST

New York: None of the components are listed.

Pennsylvania : The following components are listed: 1,2,3-PROPANETRIOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** Not determined. Turkey : Not determined. **United States** : Not determined. **Viet Nam** : Not determined.

Section 16. Other information

Procedure used to derive the classification

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

History

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

revision

Date of previous issue : 05/24/2021

Version : 6

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

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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.

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