SAFETY DATA SHEET



Brilliant III Ultra-Fast QRT-PCR Master Mix, 10-pack, Part Number 600885

Section 1. Identification

1.1 Product identifier

Product name : Brilliant III Ultra-Fast QRT-PCR Master Mix, 10-pack, Part Number 600885

Part no. (chemical kit) : 600885

Part no. : 2X Brilliant III QRT-PCR Master Mix 600884-51

RT/RNase Block 600884-52 Reference Dye 600530-53 100 mM DTT 600089-53

Validation date : 9/17/2019

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

Material uses : Analytical reagent.

ZX Brilliant III QRT-PCR Master Mix 10 x (2 x 2 ml) RT/RNase Block 10 x 0.4 ml

Reference Dye $10 \times (0.1 \text{ ml } (100 \text{ µl } 1 \text{ mM}))$

100 mM DTT 0.1 ml

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 : 2X Brilliant III QRT-PCR

Master Mix RT/RNase Block

Reference Dye

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

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.

100 mM DTT 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.

Classification of the substance or mixture

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Section 2. Hazards identification

2X Brilliant III QRT-PCR Master

Mix

H320 EYE IRRITATION - Category 2B

RT/RNase Block

H320 EYE IRRITATION - Category 2B

Ingredients of unknown

toxicity

2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block

Reference Dye

100 mM DTT

Percentage of the mixture consisting of ingredient (s) of unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient

(s) of unknown acute inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient

(s) of unknown acute dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient
(s) of unknown acute inhalation toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient

(s) of unknown acute oral toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient (s) of unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 1 - 10%

Reference Dye Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

2.4%

2.2 GHS label elements

Signal word : 2X Brilliant III QRT-PCR Master Warning

Mix

RT/RNase Block Warning
Reference Dye No signal word.
100 mM DTT No signal word.

Hazard statements : 2X Brilliant III QRT-PCR Master H320 - Causes eye irritation.

Mix

RT/RNase Block H320 - Causes eye irritation.

Reference Dye

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Precautionary statements

Prevention : 2X Brilliant III QRT-PCR Master P264 - Wash hands thoroughly after handling.

Mix

RT/RNase Block

RT/RNase Block P264 - Wash hands thoroughly after handling.

Reference Dye Not applicable. 100 mM DTT Not applicable.

Response : 2X Brilliant III QRT-PCR Master P305 + P351 + P338 - IF IN EYES: Rinse

Mix cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

mising.

P337 + P313 - If eye irritation persists: Get medical attention.

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

attention.

Reference Dye Not applicable.

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Section 2. Hazards identification

Not applicable. : 2X Brilliant III QRT-PCR Master Not applicable. **Storage**

100 mM DTT

Mix

RT/RNase Block Not applicable. Reference Dve Not applicable. 100 mM DTT Not applicable.

Disposal 2X Brilliant III QRT-PCR Master Not applicable.

RT/RNase Block Not applicable. Reference Dye Not applicable. 100 mM DTT Not applicable. None known.

Supplemental label

elements

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block None known. Reference Dve None known. 100 mM DTT None known.

2.3 Other hazards

Hazards not otherwise

classified

: 2X Brilliant III QRT-PCR Master

RT/RNase Block Reference Dye 100 mM DTT

None known.

None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture 2X Brilliant III QRT-PCR Master Mix

Mixture RT/RNase Block Mixture Reference Dve Mixture 100 mM DTT Mixture

Ingredient name	%	CAS number
2X Brilliant III QRT-PCR Master Mix		
Glycerol	≥10 - ≤25	56-81-5
Polyethylene glycol	≤10	25322-68-3
Potassium chloride	≤3	7447-40-7
RT/RNase Block		
Glycerol	≥50 - ≤75	56-81-5
Reference Dye		
Potassium chloride	≤5	7447-40-7
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3	1185-53-1
100 mM DTT		
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	≤3	3483-12-3

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 as hazardous to health or the environment and hence require reporting in this section.

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

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4.1 Description of necessary first aid measures

Eye contact

: 2X Brilliant III QRT-PCR Master

RT/RNase Block

Reference Dye

Mix

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. 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. Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

100 mM DTT Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

: 2X Brilliant III QRT-PCR Master

Mix

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.

RT/RNase Block 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 Dve 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.

Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Inhalation

100 mM DTT

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Skin contact

: 2X Brilliant III QRT-PCR Master

Mix

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.

RT/RNase Block Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Reference Dye 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. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Ingestion

: 2X Brilliant III QRT-PCR Master

Mix

100 mM DTT

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has

been swallowed and the exposed person is conscious, give small quantities of water to drink. 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.

RT/RNase Block

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in

a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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

belt or waistband.

Reference Dye Wash out mouth with water. Remove victim to

fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get

airway. Loosen tight clothing such as a collar, tie,

medical attention if symptoms occur.

100 mM DTT Wash out mouth with water. Remove victim to

fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small

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quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

: 2X Brilliant III QRT-PCR Master Eye contact Causes eye irritation.

Causes eye irritation. RT/RNase Block

Reference Dve No known significant effects or critical hazards. 100 mM DTT No known significant effects or critical hazards.

Inhalation : 2X Brilliant III QRT-PCR Master No known significant effects or critical hazards.

Mix

RT/RNase Block No known significant effects or critical hazards. No known significant effects or critical hazards. Reference Dve 100 mM DTT No known significant effects or critical hazards.

Skin contact 2X Brilliant III QRT-PCR Master No known significant effects or critical hazards.

Mix

RT/RNase Block No known significant effects or critical hazards. No known significant effects or critical hazards. Reference Dve 100 mM DTT No known significant effects or critical hazards.

: 2X Brilliant III QRT-PCR Master Ingestion No known significant effects or critical hazards.

Mix

RT/RNase Block No known significant effects or critical hazards. No known significant effects or critical hazards. Reference Dye 100 mM DTT No known significant effects or critical hazards.

Over-exposure signs/symptoms

: 2X Brilliant III QRT-PCR Master Eye contact Adverse symptoms may include the following:

Mix

irritation watering redness

RT/RNase Block Adverse symptoms may include the following:

> irritation watering redness

Reference Dve No specific data. 100 mM DTT No specific data.

2X Brilliant III QRT-PCR Master Inhalation No specific data.

Mix

RT/RNase Block No specific data. Reference Dye No specific data. 100 mM DTT No specific data. : 2X Brilliant III QRT-PCR Master No specific data.

Skin contact

Mix

RT/RNase Block No specific data. Reference Dye No specific data. 100 mM DTT No specific data. : 2X Brilliant III QRT-PCR Master No specific data.

Ingestion

Mix

RT/RNase Block No specific data. Reference Dye No specific data. 100 mM DTT No specific data.

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

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Notes to physician

2X Brilliant III QRT-PCR Master

Mix

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

ingested or inhaled.

RT/RNase Block Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Reference Dye 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.

100 mM DTT Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

: 2X Brilliant III QRT-PCR Master Specific treatments

Mix

No specific treatment.

RT/RNase Block No specific treatment. Reference Dye No specific treatment. 100 mM DTT No specific treatment.

Protection of first-aiders 2X Brilliant III QRT-PCR Master

Mix

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.

RT/RNase Block No action shall be taken involving any personal risk

> or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Reference Dye No action shall be taken involving any personal risk

or without suitable training.

100 mM DTT No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block

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 Reference Dye

surrounding fire.

Use an extinguishing agent suitable for the 100 mM DTT

surrounding fire.

None known.

Unsuitable extinguishing

media

: 2X Brilliant III QRT-PCR Master

RT/RNase Block None known. Reference Dye None known. 100 mM DTT None known.

5.2 Special hazards arising from the substance or mixture

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Section 5. Fire-fighting measures

Specific hazards arising from the chemical

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block

Reference Dye

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.

100 mM DTT In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products

: 2X Brilliant III QRT-PCR Master

Mix

Decomposition products may include the following

materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

RT/RNase Block 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

100 mM DTT Decomposition products may include the following

materials: carbon dioxide carbon monoxide sulfur oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: 2X Brilliant III QRT-PCR Master

Mix

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.

RT/RNase Block Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

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.

100 mM DTT Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Special protective equipment for fire-fighters

: 2X Brilliant III QRT-PCR Master

Mix

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

pressure mode.

RT/RNase Block Fire-fighters should wear appropriate protective

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

pressure mode.

Reference Dye Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus

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Section 5. Fire-fighting measures

100 mM DTT

(SCBA) with a full face-piece operated in positive

pressure mode.

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

RT/RNase Block

Reference Dye

100 mM DTT

For non-emergency personnel

: 2X Brilliant III QRT-PCR Master Mix

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

No action shall be taken involving any personal

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.

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.

For emergency responders:

2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block

Reference Dye

100 mM DTT

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

: 2X Brilliant III QRT-PCR Master

Mix

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).

RT/RNase Block Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

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

caused environmental pollution (sewers,

waterways, soil or air).

100 mM DTT 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

: 2X Brilliant III QRT-PCR Master

Mix

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.

RT/RNase Block Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

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.

100 mM DTT Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : 2X Brilliant III QRT-PCR Master

Mix

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.

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Section 7. Handling and storage

RT/RNase Block

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Reference Dye

Put on appropriate personal protective equipment (see Section 8).

100 mM DTT

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : 2X Brilliant III QRT-PCR Master Mix

RT/RNase Block

Reference Dye

100 mM DTT

7.2 Conditions for safe storage, including any incompatibilities

: 2X Brilliant III QRT-PCR Master Mix

RT/RNase Block

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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

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.

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Section 7. Handling and storage

Reference Dye

100 mM DTT

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.

opened must be carefully resealed and kept upright

7.3 Specific end use(s)

Recommendations

solutions

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block Reference Dye 100 mM DTT

Industrial sector specific

2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block Reference Dye 100 mM DTT Industrial applications, Professional applications.

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

Not applicable.

Not applicable. Not applicable. Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2X Brilliant III QRT-PCR Master Mix	
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/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m³ 8 hours. Form: Total dust
Polyethylene glycol	AIHA WEEL (United States, 7/2018).
	TWA: 10 mg/m ³ 8 hours.
Potassium chloride	None.

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Section 8. Exposure controls/personal protection

RT/RNase Block

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

Reference Dye

Potassium chloride

2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

None.

100 mM DTT

(R*,R*)-1,4-Dimercaptobutane-2,3-diol

None.

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

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : 2X Brilliant III QRT-PCR Master Liquid.

Mix

RT/RNase Block Liquid.
Reference Dye Liquid.
100 mM DTT Liquid.

Color : 2X Brilliant III QRT-PCR Master Not available.

Mix

RT/RNase Block
Reference Dye
100 mM DTT
Not available.
Not available.

Odor : 2X Brilliant III QRT-PCR Master Not available.

Mix

RT/RNase Block
Reference Dye
100 mM DTT
Not available.
Not available.

Odor threshold : 2X Brilliant III QRT-PCR Master Not available.

Mix

RT/RNase Block Not available.
Reference Dye Not available.
100 mM DTT Not available.

pH : 2X Brilliant III QRT-PCR Master 7.8

Mix

RT/RNase Block 8 Reference Dye 8

Melting point100 mM DTTNot available.2X Brilliant III QRT-PCR MasterNot available.

Mix

RT/RNase Block
Reference Dye
100 mM DTT

2X Brilliant III QRT-PCR Master

Not available.
Not available.

Boiling point : 2X Brilliant III QRT-PCR Master Not available

Mix

RT/RNase Block
Reference Dye
100 mM DTT
Not available.
Not available.
100°C (212°F)

Flash point : 2X Brilliant III QRT-PCR Master Not available.

Mix

RT/RNase Block
Reference Dye
100 mM DTT
Not available.

Available.

Not available.

Not available.

Not available.

Evaporation rate : 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.

Flammability (solid, gas) : 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block Not applicable.
Reference Dye Not applicable.
100 mM DTT Not applicable.

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Section 9. Physical and chemical properties

Lower and upper explosive

(flammable) limits

: 2X Brilliant III QRT-PCR Master Not available.

Mix

RT/RNase Block Not available. Reference Dye Not available. 100 mM DTT Not available. Not available.

: 2X Brilliant III QRT-PCR Master Vapor pressure

RT/RNase Block Not available. Reference Dve Not available. 100 mM DTT Not available. Not available.

Vapor density : 2X Brilliant III QRT-PCR Master

RT/RNase Block Not available. Reference Dve Not available. 100 mM DTT Not available. Not available.

Relative density 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block Not available. Reference Dve Not available. 100 mM DTT Not available.

: 2X Brilliant III QRT-PCR Master **Solubility** Easily soluble in the following materials: cold water

and hot water. RT/RNase Block Easily soluble in the following materials: cold water

and hot water.

Reference Dve Easily soluble in the following materials: cold water

and hot water.

100 mM DTT Easily soluble in the following materials: cold water

> and hot water. Not available.

Partition coefficient: n-

octanol/water

: 2X Brilliant III QRT-PCR Master

RT/RNase Block Not available. Reference Dve Not available. 100 mM DTT Not available. : 2X Brilliant III QRT-PCR Master Not available.

Auto-ignition temperature

Mix

RT/RNase Block Not available. Reference Dve Not available. 100 mM DTT Not available. 2X Brilliant III QRT-PCR Master Not available.

Decomposition temperature

Not available. RT/RNase Block Reference Dye Not available. 100 mM DTT Not available. : 2X Brilliant III QRT-PCR Master Not available.

Viscosity

Mix

RT/RNase Block Not available. Reference Dye Not available. 100 mM DTT Not available.

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Section 10. Stability and reactivity

10.1 Reactivity : 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block No specific test data related to reactivity available

for this product or its ingredients.

for this product or its ingredients.

No specific test data related to reactivity available

Reference Dye No specific test data related to reactivity available

for this product or its ingredients.

100 mM DTT No specific test data related to reactivity available

for this product or its ingredients.

10.2 Chemical stability : 2X Brilliant III QRT-PCR Master

Mix

The product is stable.

RT/RNase Block Reference Dye 100 mM DTT The product is stable. The product is stable. The product is stable.

10.3 Possibility of hazardous reactions

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block

Reference Dve

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.

100 mM DTT Under normal conditions of storage and use,

hazardous reactions will not occur.

10.4 Conditions to avoid

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block Reference Dye 100 mM DTT No specific data.

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

10.5 Incompatible materials

: 2X Brilliant III QRT-PCR Master

IVIIX

RT/RNase Block

May react or be incompatible with oxidizing

materials.

May react or be incompatible with oxidizing

materials.

Reference Dye May react or be incompatible with oxidizing

materials.

100 mM DTT

May react or be incompatible with oxidizing

materials.

10.6 Hazardous decomposition products

: 2X Brilliant III QRT-PCR Master

Mix

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

RT/RNase Block 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.

100 mM DTT Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

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11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2X Brilliant III QRT-PCR Master Mix				
Glycerol Potassium chloride	LD50 Oral LD50 Oral	Rat Rat	12600 mg/kg 2600 mg/kg	-
RT/RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Reference Dye Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2X Brilliant III QRT-PCR Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
RT/RNase Block					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Reference Dye Potassium chloride	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
				milligrams	

Sensitization

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary : Not available.

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Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2X Brilliant III QRT-PCR Master Mix Polyethylene glycol	Category 3	Not applicable.	Respiratory tract irritation
Reference Dye 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: 2X Brilliant III QRT-PCR Master

Routes of entry anticipated: Oral, Dermal,

Inhalation.

RT/RNase Block Routes of entry anticipated: Oral, Dermal,

Inhalation.

Reference Dye Routes of entry anticipated: Oral, Dermal,

Inhalation.

100 mM DTT Routes of entry anticipated: Oral, Dermal,

Inhalation.

Potential acute health effects

Eye contact : 2X Brilliant III QRT-PCR Master Causes eye irritation.

Mix

RT/RNase Block Causes eye irritation.

Reference Dye
100 mM DTT
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Inhalation : 2X Brilliant III QRT-PCR Master No known significant effects or critical hazards.

Mix

RT/RNase Block
Reference Dye
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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Skin contact: 2X Brilliant III QRT-PCR Master No known significant effects or critical hazards.

IVIIX

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Ingestion : 2X Brilliant III QRT-PCR Master No known significant effects or critical hazards.

Mix

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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Eye contact : 2X Brilliant III QRT-PCR Master Adverse symptoms may include the following:

Mix

irritation watering redness

RT/RNase Block Adverse symptoms may include the following:

irritation watering redness

Reference Dye
100 mM DTT
No specific data.

Inhalation : 2X Brilliant III QRT-PCR Master No specific data.

Mix

RT/RNase Block
Reference Dye
No specific data.

Skin contact : 2X Brilliant III QRT-PCR Master No

Mix

RT/RNase Block
Reference Dye
100 mM DTT
No specific data.

Ingestion : 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block No specific data.
Reference Dye No specific data.
100 mM DTT 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.

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General: 2X Brilliant III QRT-PCR Master No known significant effects or critical hazards.

Mix

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Carcinogenicity: 2X Brilliant III QRT-PCR Master No known significant effects or critical hazards.

Mix

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Mutagenicity: 2X Brilliant III QRT-PCR Master No known significant effects or critical hazards.

Mix

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.

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Teratogenicity	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTŤ	No known significant effects or critical hazards.
Developmental effects	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
Fertility effects	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	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 (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
X Brilliant III QRT-PCR Master Mix					
2X Brilliant III QRT-PCR Master Mix	193152.7	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
Polyethylene glycol	28000	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
RT/RNase Block					
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
100 mM DTT					
100 mM DTT	33333.3	N/A	N/A	N/A	N/A
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	500	N/A	N/A	N/A	N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2X Brilliant III QRT-PCR Master Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Polyethylene glycol	Acute LC50 >1000000 µg/l Fresh water	Fish - Salmo salar - Parr	96 hours
Potassium chloride	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 141.46 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12.92 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours

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	Acute LC50 880 mg/l Fresh water	Fish - Pimephales promelas	96 hours
RT/RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Reference Dye			
Potassium chloride	Acute EC50 1337000 μg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 141.46 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12.92 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 880 mg/l Fresh water	Fish - Pimephales promelas	96 hours
100 mM DTT			
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	Acute LC50 27000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2X Brilliant III QRT-PCR				
Master Mix				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
RT/RNase Block				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2X Brilliant III QRT-PCR			
Master Mix			
Potassium chloride	-	-	Readily
Reference Dye			
Potassium chloride	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2X Brilliant III QRT-PCR			
Master Mix			
Glycerol	-1.76	-	low
Polyethylene glycol	-	3.2	low
Potassium chloride	-0.46	-	low
RT/RNase Block			
Glycerol	-1.76	-	low
Reference Dye			

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Brilliant III Ultra-Fast QRT-PCR Master Mix, 10-pack, Part Number 600885 Section 12. Ecological information Potassium chloride low

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 Annex II of MARPOL and the IBC Code

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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: Polyoxyethylene octyl phenyl ether; 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

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

DEA List I Chemicals

(Precursor Chemicals)

: Not listed

DEAList II Chamiasla

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 : 2X Brilliant III QRT-PCR Master

EYE IRRITATION - Category 2B

Mix

RT/RNase Block EYE IRRITATION - Category 2B

Reference Dye Not applicable. 100 mM DTT Not applicable.

Composition/information on ingredients

Name	%	Classification
X Brilliant III QRT-PCR Master Mix		
Glycerol Polyethylene glycol	≥10 - ≤25 ≤10	EYE IRRITATION - Category 2A EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Potassium chloride	≤3	EYE IRRITATION - Category 2A
RT/RNase Block Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
Reference Dye Potassium chloride 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤5 ≤3	EYE IRRITATION - Category 2A SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	≤3	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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Section 15. Regulatory information

State regulations

Massachusetts : The following components are listed: GLYCERINE MIST

New York: None of the components are listed.

New Jersey : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL

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

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 : All components are listed or exempted.

Europe : Not determined.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

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

Section 16. Other information

History

Date of issue : 09/17/2019

Date of previous issue : 08/21/2017

Version : 7

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Section 16. Other information

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

Procedure used to derive the classification

Classification	Justification
2X Brilliant III QRT-PCR Master Mix EYE IRRITATION - Category 2B	Calculation method
RT/RNase Block EYE IRRITATION - Category 2B	Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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