# **SAFETY DATA SHEET**



Brilliant III Ultra-Fast QRT-PCR Master Mix, Part Number 600884

# **Section 1. Identification**

**1.1 Product identifier** 

Product name : Brilliant III Ultra-Fast QRT-PCR Master Mix, Part Number 600884

Part no. (chemical kit) : 600884

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 : 5/27/2022

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

Material uses : Analytical reagent.

2X Brilliant III QRT-PCR Master Mix 2 x 2 ml RT/RNase Block 0.4 ml

Reference Dye 0.1 ml (100 µl 1 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 Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This material is considered hazardous by the OSHA

Reference Dye 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

2X Brilliant III QRT-PCR Master

Mix

H320 EYE IRRITATION - Category 2B

RT/RNase Block

H320 EYE IRRITATION - Category 2B

Date of issue: 05/27/2022 1/25

## Section 2. Hazards identification

### 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.

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

Mix

RT/RNase Block H320 - Causes eye irritation.

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

**Precautionary statements** 

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

Mix

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

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

Mix

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.

RT/RNase Block P305 + P351 + P338 - IF IN EYES: Rinse

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

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Reference Dye Not applicable. 100 mM DTT Not applicable.

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

Mix

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

**Disposal** 

Mix

RT/RNase Block Not applicable. Reference Dye Not applicable. 100 mM DTT Not applicable. : 2X Brilliant III QRT-PCR Master None known.

Supplemental label elements Mix

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

2.3 Other hazards

Hazards not otherwise : 2X Brilliant III QRT-PCR Master None known.

classified

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

05/27/2022 Date of issue: 2/25

# Section 3. Composition/information on ingredients

Substance/mixture

2X Brilliant III QRT-PCR Master Mix Mixture RT/RNase Block Mixture Reference Dye Mixture 100 mM DTT Mixture

Ingredient name	%	CAS number
X Brilliant III QRT-PCR Master Mix		
Glycerol	≥10 - ≤25	56-81-5
Polyethylene glycol	≤10	25322-68-3
Potassium chloride	≤3	7447-40-7
Magnesium chloride	<0.25	7786-30-3
RT/RNase Block		
Glycerol	≥50 - ≤75	56-81-5
Reference Dye		
Potassium chloride	≤5	7447-40-7
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 and hence require reporting in this section.

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

## Section 4. First aid measures

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4.1 Des	scription c	f necessarv firs	t aid mea	Sures

Eye contact

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block

Reference Dye

100 mM DTT

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.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Inhalation : 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

Date of issue: 05/27/2022 3/25

## Section 4. First aid measures

RT/RNase Block

collar, tie, belt or waistband.

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 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

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

attention if symptoms occur.

**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.

100 mM DTT

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

medical attention if symptoms occur.

Ingestion

: X Brilliant III QRT-PCR Master

Mix

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. 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

RT/RNase Block

Date of issue: 05/27/2022 4/25

## Section 4. First aid measures

kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Reference Dye

Wash out mouth with water. If material has been swallowed and the exposed person is conscious,

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

occur.

100 mM DTT Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

## 4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Mix

RT/RNase Block Causes eye irritation.

Reference Dye
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.

Skin contact: 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.

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.

Over-exposure signs/symptoms

**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 No specific data. 100 mM DTT No specific data.

Date of issue: 05/27/2022 5/25

## Section 4. First aid measures

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

Mix

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

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

Mix

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

Ingestion 2X Brilliant III QRT-PCR Master

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

Treat symptomatically. Contact poison treatment Notes to physician : 2X Brilliant III QRT-PCR Master

Mix

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.

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.

100 mM DTT Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

**Specific treatments** No specific treatment. : 2X Brilliant III QRT-PCR Master

Mix

Mix

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 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)

Date of issue: 05/27/2022 6/25

# Section 5. Fire-fighting measures

## 5.1 Extinguishing media

Suitable extinguishing media

: 2X Brilliant III QRT-PCR Master

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.

100 mM DTT Use an extinguishing agent suitable for the

surrounding fire.

**Unsuitable extinguishing** media

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block Reference Dye 100 mM DTT

None known.

None known. None known. None known.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: 2X Brilliant III QRT-PCR Master

RT/RNase Block

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.

Reference Dye 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

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

05/27/2022 Date of issue: 7/25

# Section 5. Fire-fighting measures

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

pressure mode.

100 mM DTT Fire-fighters should wear appropriate protective

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

pressure mode.

# Section 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 2X Brilliant III QRT-PCR Master Mix

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.

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

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

Reference Dye No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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.

100 mM DTT

Date of issue: 05/27/2022 8/25

## Section 6. Accidental release measures

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".

6.2 Environmental precautions

: 2X Brilliant III QRT-PCR Master

RT/RNase Block

Reference Dye

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).

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).

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).

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.

Stop leak if without risk. Move containers from spill Reference Dye

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.

Date of issue: 05/27/2022 9/25

## Section 6. Accidental release measures

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.

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

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.

05/27/2022 Date of issue: 10/25

# Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: 2X Brilliant III QRT-PCR Master

RT/RNase Block

Reference Dye

100 mM DTT

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

solutions

Industrial sector specific

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block Reference Dye 100 mM DTT

aster l

Brilliant III QRT-PCR Master

IVIIX

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 available.

Not available. Not available. Not available.

**Date of issue**: 05/27/2022 **11/25** 

# Section 8. Exposure controls/personal protection

## 8.1 Control parameters

## **Occupational exposure limits**

Ingredient name	Exposure limits
X 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/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust
Polyethylene glycol	OARS WEEL (United States, 1/2021). TWA: 10 mg/m³ 8 hours.
Potassium chloride Magnesium chloride	None.
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	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** 

**Date of issue**: 05/27/2022 **12/25** 

# Section 8. Exposure controls/personal protection

## **Hand protection**

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

### **Body protection**

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

#### Other skin protection

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

### **Respiratory protection**

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

# Section 9. Physical and chemical properties and safety characteristics

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

## **Appearance**

Physical state	2X Brilliant III QRT-PCR Master	Liauid.
i iiyaicai atate		Liquiu.

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
Not available.
Not available.
Not available.
Available.
Reference Dye
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 point/freezing point : 2X Brilliant III QRT-PCR Master Not available.

Not available.

Mix

RT/RNase Block
Reference Dye
100 mM DTT

CYC (32°F)

Wot available.
O°C (32°F)

Not available.

Boiling point, initial boiling point, and boiling range

AA'-

Mix

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

Date of issue: 05/27/2022 13/25

# Section 9. Physical and chemical properties and safety characteristics

**Flash point** 

	Closed cup		Open cup			
Ingredient name	°C	°F	Method	°C	°F	Method
Brilliant III QRT-PCR Master Mix						
Edetic acid	>100	>212	DIN 51758			
Polyoxyethylene octyl phenyl ether	>109.85	>229.7				
RT/RNase Block						
Edetic acid	>100	>212	DIN 51758			
Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	>109.85	>229.7				
100 mM DTT						
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				

**Evaporation rate** 

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

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

**Flammability** 

: 2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block Not applicable. Reference Dye Not applicable. 100 mM DTŤ Not applicable. Not available.

Lower and upper explosion limit/flammability limit

2X Brilliant III QRT-PCR Master

Mix

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

Vapor pressure

	Vapo	Vapor Pressure at 20°C			Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
X Brilliant III QRT-PCR Master Mix								
water	23.8	3.2		92.258	12.3			
Sorbitan monolaurate, ethoxylated	<1	<0.13						
RT/RNase Block								
water	23.8	3.2		92.258	12.3			
Glycerol	0.000075	0.00001		0.0025	0.00033			
Reference Dye								
water	23.8	3.2		92.258	12.3			
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001			

Date of issue: 05/27/2022 14/25

# Section 9. Physical and chemical properties and safety characteristics

100 mM DTT			
water	3.2	92.258	12.3

Not available.

Relative vapor density

: 2X Brilliant III QRT-PCR Master

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

**Relative density** 

: 2X Brilliant III QRT-PCR Master

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

**Solubility** 

2X Brilliant III QRT-PCR Master

Mix

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 Dye 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 applicable.

Partition coefficient: noctanol/water

: 2X Brilliant III QRT-PCR Master

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

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
2X Brilliant III QRT-PCR Master Mix			
Polyethylene glycol	360	680	
Glycerol	370	698	
RT/RNase Block			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263

**Decomposition temperature** 

2X Brilliant III QRT-PCR Master

Not available.

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

**Viscosity** 

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

**Particle characteristics** 

Median particle size

: 2X Brilliant III QRT-PCR Master

Not applicable.

Mix

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

Date of issue: 05/27/2022 15/25

# Section 10. Stability and reactivity

10.1 Reactivity

2X Brilliant III QRT-PCR Master

Mix

RT/RNase Block

Reference Dye

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available

No specific test data related to reafor this product or its ingredients.

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

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

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 Dye

100 mM DTT

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

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

MIX

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.

Date of issue: 05/27/2022 16/25

## 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2X Brilliant III QRT-PCR				
Master Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
Magnesium chloride	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
		Female		
	LD50 Oral	Rat	2800 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 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	mg 24 hours 500	-
	Eyes - Mild irritant	Rabbit	-	mg 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Determination	Skin - Mild irritant	Rabbit	-	500 mg	-
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
RT/RNase Block					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Reference Dye				Ŭ	
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

## **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)

**Date of issue**: 05/27/2022 **17/25** 

Name	Category	Route of exposure	Target organs
<b>700 mM DTT</b> (R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3		Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: X Brilliant III QRT-PCR Master

RT/RNase Block

Routes of entry anticipated: Oral, Dermal,

Mix Inhalation.

Routes of entry anticipated: Oral, Dermal,

Inhalation.

Not available.

Reference Dye

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.

Inhalation : 2X Brilliant III QRT-PCR Master

Mix

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

Skin contact : 2X Brilliant III QRT-PCR Master

Mix

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

Ingestion : 2X Brilliant III QRT-PCR Master

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

Eye contact : 2X Brilliant III QRT-PCR Master

Mix

Adverse symptoms may include the following:

irritation watering redness

RT/RNase Block Adverse symptoms may include the following:

irritation watering redness

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

**Date of issue**: 05/27/2022 **18/25** 

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

Mix

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

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

Mix

RT/RNase Block
Reference Dye
No specific data.
No specific data.
No specific data.
Reference Dye
No specific data.
No specific data.
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** 

: Not available.

effects

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.

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

ZX Brilliant III QRT-PCR Master
No known significant effects or critical hazards.

Reproductive toxicity : 2X Brilliant III QRT-PCR Master

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.

Numerical measures of toxicity

Acute toxicity estimates

Date of issue: 05/27/2022 19/25

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
Magnesium chloride	2800	2500	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

Other information

: 2X Brilliant III QRT-PCR Master

Mix

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

100 mM DTT Adverse symptoms may include the following: May

Not available.

cause sensitization by skin contact.

# 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	72 hours
		subspicatus	
	Acute EC50 83000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida	48 hours
		ramosa - Neonate	
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	96 hours
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	
	Acute EC50 180000 µg/l Fresh water	Crustaceans - Eudiaptomus	48 hours
		padanus ssp. padanus - Adult	
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 32000 μg/l Fresh water	Daphnia - Daphnia hyalina - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
1			

Date of issue: 05/27/2022 20/25

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 Acute EC50 9.24 g/L Fresh water	Algae - Navicula seminulum Algae - Desmodesmus subspicatus	96 hours 72 hours
	Acute EC50 83000 µg/l Fresh water Acute LC50 9.68 mg/l Fresh water	Daphnia - Daphnia magna Crustaceans - Pseudosida ramosa - Neonate	48 hours 48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	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	-	-
Polyethylene glycol	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
RT/RNase Block				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

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

## **12.3 Bioaccumulative potential**

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

**Date of issue :** 05/27/2022 **21/25** 

Brilliant III Ultra-Fast QRT-PCR Master Mix, Part Number 600884				
Section 12. Ecological information				
Reference Dye Potassium chloride	-0.46	_	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 IMO instruments

# **Section 15. Regulatory information**

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

**U.S. Federal regulations** 

: FSCA 8(a) PAIR: Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-. omega.-hydroxy-; Polyoxyethylene octyl phenyl ether

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

Clean Water Act (CWA) 311: Edetic acid

Date of issue: 05/27/2022 22/25

# 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

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**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** 

2X Brilliant III QRT-PCR Master Mix Classification

EYE IRRITATION - Category 2B RT/RNase Block EYE IRRITATION - Category 2B

Reference Dye Not applicable. 100 mM DTT Not applicable.

## **Composition/information on ingredients**

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

## **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**

Date of issue: 05/27/2022 23/25

# **Section 15. Regulatory information**

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 (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

**New Zealand** : Not determined. : Not determined. **Philippines** 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
2X Brilliant III QRT-PCR Master Mix EYE IRRITATION - Category 2B	Calculation method
RT/RNase Block EYE IRRITATION - Category 2B	Calculation method

## **History**

Date of issue : 05/27/2022 Date of previous issue : 09/17/2019

Version : 8

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**

Date of issue: 05/27/2022 24/25

## 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.

**Date of issue :** 05/27/2022 **25/25**