# **SAFETY DATA SHEET**



Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, Part Number 600886

### **Section 1. Identification**

Product identifier : Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, Part Number 600886

Part no. (chemical kit) : 600886

Part no. : 2X Brilliant III SYBR® Green QRT-PCR 600886-51

Master Mix

 RT/RNase Block
 600886-52

 Reference Dye
 600530-53

 100 mM DTT
 600089-53

Material uses : Analytical reagent.

2X Brilliant III SYBR® Green QRT-PCR 2 x 2 ml

Master Mix

RT/RNase Block 0.4 ml

Reference Dye 0.1 ml (100 µl 1 mM)

100 mM DTT 0.1 ml

**Supplier/Manufacturer**: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

**Emergency telephone** number (with hours of

operation)

: CHEMTREC®: 1-800-424-9300

### Section 2. Hazard identification

#### Classification of the substance or mixture

X Brilliant III SYBR® Green QRT-PCR Master Mix

H320 EYE IRRITATION - Category 2B

RT/RNase Block

H320 EYE IRRITATION - Category 2B

**GHS** label elements

Signal word : 2X Brilliant III SYBR® Green Warning

QRT-PCR Master Mix

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

Hazard statements : 2X Brilliant III SYBR® Green H320 - Causes eye irritation.

QRT-PCR Master 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 : ZX Brilliant III SYBR® Green Not applicable.

**QRT-PCR Master Mix** 

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

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#### Section 2. Hazard identification

: 2X Brilliant III SYBR® Green P305 + P351 + P338 - IF IN EYES: Rinse cautiously Response

**QRT-PCR Master Mix** with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

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

advice or attention.

Reference Dye Not applicable. 100 mM DTT Not applicable.

**Storage** 2X Brilliant III SYBR® Green Not applicable.

QRT-PCR Master Mix

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

**Disposal** : 2X Brilliant III SYBR® Green Not applicable.

**QRT-PCR Master Mix** 

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

Supplemental label

elements

: 2X Brilliant III SYBR® Green

None known.

QRT-PCR Master Mix RT/RNase Block

None known. Reference Dye None known. 100 mM DTT None known.

Other hazards which do not :

result in classification

2X Brilliant III SYBR® Green None known.

QRT-PCR Master Mix

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

### Section 3. Composition/information on ingredients

Substance/mixture : 2X Brilliant III SYBR® Green Mixture

**ORT-PCR Master Mix** 

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

Ingredient name	% (w/w)	CAS number
<b>2</b> X Brilliant III SYBR® Green QRT-PCR Master Mix		
Glycerol	10 - 30	56-81-5
Dimethyl sulfoxide	3 - 7	67-68-5
Potassium chloride	0.5 - 1.5	7447-40-7
RT/RNase Block		
Glycerol	30 - 60	56-81-5
Reference Dye		
Potassium chloride	1 - 5	7447-40-7
100 mM DTT		
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	0.5 - 1.5	3483-12-3

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.

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### Section 3. Composition/information on ingredients

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

### Section 4. First-aid measures

**Description of necessary first aid measures** 

**Eye contact** : 2X Brilliant III SYBR® Green

**QRT-PCR Master 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.

RT/RNase Block Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists,

get medical attention.

Reference Dye Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

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.

Inhalation : 2X Brilliant III SYBR® Green

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 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.

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### Section 4. First-aid measures

Skin contact

: 2X Brilliant III SYBR® Green

**QRT-PCR Master Mix** 

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

RT/RNase Block

Reference Dye

medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water.

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

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

medical attention if symptoms occur.

100 mM DTT Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

: 2X Brilliant III SYBR® Green Ingestion **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.

RT/RNase Block 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

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

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

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.

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

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#### Section 4. First-aid measures

**Eye contact**: 2X Brilliant III SYBR® Green Causes eye irritation.

**QRT-PCR Master 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 SYBR® Green No known significant effects or critical hazards.

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.

**Skin contact**: 2X Brilliant III SYBR® Green No known significant effects or critical hazards.

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.

Ingestion : 2X Brilliant III SYBR® Green No known significant effects or critical hazards.

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.

Over-exposure signs/symptoms

**Eye contact** : 2X Brilliant III SYBR® Green Adverse symptoms may include the following:

**QRT-PCR Master 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.

Inhalation : 2X Brilliant III SYBR® Green No specific data.

**QRT-PCR Master Mix** 

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

Skin contact : 2X Brilliant III SYBR® Green No specific data.

QRT-PCR Master Mix

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

Ingestion : 2X Brilliant III SYBR® Green No specific data.

**QRT-PCR Master Mix** 

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

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

Notes to physician : 2X Brilliant III SYBR® Green Treat symptomatically. Contact poison treatment

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.

Reference Dye In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed

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#### Section 4. First-aid measures

person may need to be kept under medical

surveillance for 48 hours.

Treat symptomatically. Contact poison treatment 100 mM DTT

specialist immediately if large quantities have been

ingested or inhaled.

**Specific treatments** 

: 2X Brilliant III SYBR® Green

No specific treatment.

**QRT-PCR Master Mix** 

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

**Protection of first-aiders** 

2X Brilliant III SYBR® Green 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.

No action shall be taken involving any personal risk Reference Dye

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

#### **Extinguishing media**

Suitable extinguishing media

: 2X Brilliant III SYBR® Green QRT-PCR Master Mix

Use an extinguishing agent suitable for the

surrounding fire.

RT/RNase Block

Use an extinguishing agent suitable for the

surrounding fire.

Reference Dye Use an extinguishing agent suitable for the

surrounding fire.

100 mM DTT Use an extinguishing agent suitable for the

surrounding fire.

**Unsuitable extinguishing** media

: 2X Brilliant III SYBR® Green None known. QRT-PCR Master Mix

RT/RNase Block Reference Dye 100 mM DTT

None known. None known. None known.

Specific hazards arising from the chemical

**QRT-PCR Master Mix** 

: 2X Brilliant III SYBR® Green In a fire or if heated, a pressure increase will occur

and the container may burst.

RT/RNase Block

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

QRT-PCR Master Mix

: 2X Brilliant III SYBR® Green Decomposition products may include the following

materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds

metal oxide/oxides

RT/RNase Block Decomposition products may include the following

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### Section 5. Fire-fighting measures

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

**Special protective actions** for fire-fighters

: 2X Brilliant III SYBR® Green

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.

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

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 SYBR® Green 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.

Fire-fighters should wear appropriate protective Reference Dye

> 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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

**QRT-PCR Master Mix** 

: 2X Brilliant III SYBR® Green 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.

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#### Section 6. Accidental release measures

RT/RNase Block

Reference Dye

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

Put on appropriate personal protective equipment. 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 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

If specialized clothing is required to deal with the

protective equipment.

For emergency responders: 2X Brilliant III SYBR® Green

**QRT-PCR Master Mix** 

RT/RNase Block

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".

100 mM DTT

Reference Dye

**Environmental precautions** 

: 2X Brilliant III SYBR® Green

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).

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

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 Reference Dye

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

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### Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

Methods for cleaning up

: 2X Brilliant III SYBR® Green Stop leak if without risk. Move containers from spill

**QRT-PCR Master Mix** 

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

#### Precautions for safe handling

**Protective measures** 

: 2X Brilliant III SYBR® Green

**ORT-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.

Put on appropriate personal protective equipment Reference Dye

(see Section 8).

100 mM DTT Put on appropriate personal protective equipment

(see Section 8).

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

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

before entering eating areas. See also Section 8 for additional information on hygiene measures.

contaminated clothing and protective equipment

RT/RNase Block

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove

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### Section 7. Handling and storage

Reference Dye

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

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.

100 mM DTT

Conditions for safe storage, including any incompatibilities

: 2X Brilliant III SYBR® Green QRT-PCR Master Mix

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

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### Section 7. Handling and storage

environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
X Brilliant III SYBR® Green QRT-PCR Master Mix	
Glycerol	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 7/2019).  TWAEV: 10 mg/m³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 1/2021).  TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist
Dimethyl sulfoxide	OARS WEEL (United States, 1/2021). TWA: 250 ppm 8 hours.
RT/RNase Block	
Glycerol	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 7/2019).  TWAEV: 10 mg/m³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 1/2021).  TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist

# 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.

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### Section 8. Exposure controls/personal protection

#### Eye/face protection

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

#### **Skin protection**

**Hand protection** 

: 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 SYBR® Green Liquid.

QRT-PCR Master Mix

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

Color : 2X Brilliant III SYBR® Green Not available.

QRT-PCR Master Mix

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

Odor : 2X Brilliant III SYBR® Green Not available.

QRT-PCR Master Mix

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

Odor threshold : 2X Brilliant III SYBR® Green Not available.

QRT-PCR Master Mix

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

pH : 2X Brilliant III SYBR® Green 7.8

QRT-PCR Master Mix

RT/RNase Block 8 Reference Dye 8

100 mM DTT Not available.

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

Melting point/freezing point

2X Brilliant III SYBR® Green Not available.

QRT-PCR Master Mix

RT/RNase Block Not available. Reference Dve Not available. 100 mM DTT 0°C (32°F) Not available.

**Boiling point, initial boiling** point, and boiling range

2X Brilliant III SYBR® Green

QRT-PCR Master Mix

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

Flash point

	Closed cup		Open cup		up	
Ingredient name	°C	°F	Method	°C	°F	Method
Z Brilliant III SYBR® Green QRT-PCR Master Mix						
Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	
Edetic acid	>100	>212	DIN 51758			
RT/RNase Block						
Edetic acid	>100	>212	DIN 51758			
Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omega hydroxy-	>109.85	>229.7				
100 mM DTT						
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				

: 2X Brilliant III SYBR® Green Not available. **Evaporation rate** 

QRT-PCR Master Mix

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

**Flammability** 2X Brilliant III SYBR® Green Not applicable.

QRT-PCR Master Mix

RT/RNase Block Not applicable. Not applicable. Reference Dye 100 mM DTT Not applicable. : 2X Brilliant III SYBR® Green

Lower and upper explosion limit/flammability limit

Not available.

QRT-PCR Master Mix

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

Vapor pressure

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

	Vapo	Vapor Pressure at 20°C		Vapo	r pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Brilliant III SYBR® Green 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	
100 mM DTT						
water	23.8	3.2		92.258	12.3	

Relative vapor density

: 2X Brilliant III SYBR® Green Not available.

QRT-PCR Master Mix

RT/RNase Block Not available. Not available. Reference Dye 100 mM DTT Not available. : 2X Brilliant III SYBR® Green Not available.

QRT-PCR Master Mix

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

**Solubility** 

**Relative density** 

X Brilliant III SYBR® Green Easily soluble in the following materials: cold water QRT-PCR Master Mix 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.

Partition coefficient: noctanol/water

2X Brilliant III SYBR® Green

Not applicable.

QRT-PCR Master Mix

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

**Auto-ignition temperature** 

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

Ingredient name	°C	°F	Method
Brilliant III SYBR® Green QRT-PCR Master Mix			
Dimethyl sulfoxide	300 to 302	572 to 575.6	
Glycerol	370	698	
RT/RNase Block			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263

**Decomposition temperature**: 2X Brilliant III SYBR® Green

Not available.

QRT-PCR Master Mix

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

: 2X Brilliant III SYBR® Green Not available. **Viscosity** 

QRT-PCR Master Mix

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

**Particle characteristics** 

Median particle size 2X Brilliant III SYBR® Green

QRT-PCR Master Mix

Not applicable.

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

### Section 10. Stability and reactivity

Reactivity

: 2X Brilliant III SYBR® Green

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

**QRT-PCR Master Mix** RT/RNase Block

No specific test data related to reactivity available for

Reference Dye

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.

**Chemical stability** 

: 2X Brilliant III SYBR® Green The product is stable.

QRT-PCR Master Mix

RT/RNase Block Reference Dye

RT/RNase Block

100 mM DTT

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

Possibility of hazardous reactions

: 2X Brilliant III SYBR® Green

QRT-PCR Master Mix

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, Reference Dye

hazardous reactions will not occur.

100 mM DTT Under normal conditions of storage and use,

hazardous reactions will not occur.

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### Section 10. Stability and reactivity

Conditions to avoid : 2X Brilliant III SYBR® Green No specific data.

**QRT-PCR Master Mix** 

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

Incompatible materials : 2X Brilliant III SYBR® Green May react or be incompatible with oxidizing materials.

**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 100 mM DTT May react or be incompatible with oxidizing materials.

**Hazardous decomposition** products

: 2X Brilliant III SYBR® Green

Under normal conditions of storage and use, QRT-PCR Master Mix hazardous decomposition products should not be

produced.

RT/RNase Block Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Under normal conditions of storage and use, Reference Dye

hazardous decomposition products should not be

100 mM DTT Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2X Brilliant III SYBR® Green QRT-PCR Master				
Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	_
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
Potassium chloride	LD50 Oral LD50 Oral	Rat Rat	14500 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
ZX Brilliant III SYBR® Green QRT-PCR Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	100 mg 24 hours 500	-

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### Section 11. Toxicological information

Potassium chloride	Skin - Mild irritant Eyes - Mild irritant	Rabbit Rabbit	- -	mg 100 mg 24 hours 500 mg	-
RT/RNase Block Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	24 hours 500 mg 24 hours 500 mg	-
Reference Dye 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)

Name	3 3 3	Route of exposure	Target organs
(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

: **2**X Brilliant III SYBR® Green Routes of entry anticipated: Oral, Dermal, Inhalation.

QRT-PCR Master Mix RT/RNase Block

Routes of entry anticipated: Oral, Dermal, Inhalation.

Reference Dye Not available.

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

Potential acute health effects

: 2X Brilliant III SYBR® Green Causes eye irritation. **Eye contact** 

QRT-PCR Master Mix

RT/RNase Block Causes eye irritation.

No known significant effects or critical hazards. Reference Dye 100 mM DTT No known significant effects or critical hazards. : 2X Brilliant III SYBR® Green No known significant effects or critical hazards.

Inhalation

**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

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### Section 11. Toxicological information

: 2X Brilliant III SYBR® Green Skin contact No known significant effects or critical hazards.

**QRT-PCR Master Mix** 

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. No known significant effects or critical hazards.

Ingestion : 2X Brilliant III SYBR® Green

**ORT-PCR Master Mix** 

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

#### Symptoms related to the physical, chemical and toxicological characteristics

: 2X Brilliant III SYBR® Green Adverse symptoms may include the following: Eye contact

**QRT-PCR Master Mix** 

irritation watering redness

RT/RNase Block Adverse symptoms may include the following:

> irritation watering redness No specific data.

100 mM DTT No specific data. : 2X Brilliant III SYBR® Green No specific data.

Inhalation

QRT-PCR Master Mix

Reference Dye

RT/RNase Block No specific data. No specific data. Reference Dye 100 mM DTT No specific data. : 2X Brilliant III SYBR® Green No specific data.

**Skin contact QRT-PCR Master Mix** 

RT/RNase Block No specific data. Reference Dye No specific data. 100 mM DTT No specific data. 2X Brilliant III SYBR® Green No specific data.

Ingestion

QRT-PCR Master Mix

RT/RNase Block No specific data. No specific data. Reference Dye 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 Not available.

effects

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 SYBR® Green No known significant effects or critical hazards.

**QRT-PCR Master 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.

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### Section 11. Toxicological information

Carcinogenicity : 2X Brilliant III SYBR® Green No known significant effects or critical hazards.

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.

Mutagenicity : 2X Brilliant III SYBR® Green No known significant effects or critical hazards.

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.
Reference Dye
No known significant effects or critical hazards.

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**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
2X Brilliant III SYBR® Green QRT-PCR Master					
Mix					
2X Brilliant III SYBR® Green QRT-PCR Master Mix	179217.6	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
Dimethyl sulfoxide	14500	40000	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

Other information : 2X Brilliant III SYBR® Green Not available.

QRT-PCR Master Mix

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

100 mM DTT Adverse symptoms may include the following: May

cause sensitization by skin contact.

### Section 12. Ecological information

**Toxicity** 

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# **Section 12. Ecological information**

Product/ingredient name	Result	Species	Exposure
2X Brilliant III SYBR® Green QRT-PCR Master Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Ulva lactuca	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days
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 83000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	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 83000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	96 hours
100 mM DTT			
(R*,R*)	Acute LC50 27000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
-1,4-Dimercaptobutane- 2,3-diol			

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2X Brilliant III SYBR® Green QRT-PCR Master Mix				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-
RT/RNase Block				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

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### Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2X Brilliant III SYBR® Green QRT-PCR Master Mix			
Dimethyl sulfoxide Potassium chloride	-		Not readily Readily
Reference Dye Potassium chloride	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2X Brilliant III SYBR® Green QRT-PCR Master Mix			
Glycerol Dimethyl sulfoxide Potassium chloride	-1.76 -1.35 -0.46	- 3.16 -	low low low
RT/RNase Block Glycerol	-1.76	-	low
Reference Dye Potassium chloride	-0.46	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or 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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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.

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### **Section 14. Transport information**

Transport in bulk according : Not available.

to IMO instruments

### Section 15. Regulatory information

**Canadian lists** 

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

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

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

### Section 16. Other information

**History** 

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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

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
<b>2X Brilliant III SYBR® Green QRT-PCR Master Mix</b> EYE IRRITATION - Category 2B	Calculation method
RT/RNase Block EYE IRRITATION - Category 2B	Calculation method

**References** : Not available.

▼ Indicates information that has changed from previously issued version.

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