### SAFETY DATA SHEET



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

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

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

Part no. (chemical kit) : 600886

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

Green QRT-PCR Master

Mix

RT/RNase Block 600886-52 Reference Dye 600530-53 100 mM DTT 600089-53

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

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

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : 2X Brilliant III SYBR® Mixture

Green QRT-PCR Master

Mix

Mix

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

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Ingredients of unknown

toxicity

: 2X Brilliant III SYBR®

Percentage of the mixture consisting of ingredient(s) of

Green QRT-PCR Master unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

RT/RNase Block Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

Reference Dye Percentage of the mixture consisting of ingredient(s) of

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### **SECTION 2: Hazards identification**

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

100 mM DTT Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Signal word : 2X Brilliant III SYBR® No signal word.

Green QRT-PCR Master

Mix

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

**Hazard statements** : 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green 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.

**Precautionary statements** 

**Prevention** : 2X Brilliant III SYBR® Not applicable.

Green QRT-PCR Master

Green QRT-PCR Master

Mix

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

Response 2X Brilliant III SYBR® Not applicable.

Mix

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

**Storage** 

Green QRT-PCR Master

Mix

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

**Disposal** Not applicable. Green QRT-PCR Master

Mix

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

**Hazardous ingredients** 

Supplemental label

elements

: 2X Brilliant III SYBR® Not applicable.

Green QRT-PCR Master

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

100 mM DTT Safety data sheet available on request.

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### SECTION 2: Hazards identification

Annex XVII - Restrictions : 2X Brilliant III SYBR® on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles

Green QRT-PCR Master

Mix

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

Special packaging requirements

**Tactile warning of** danger

: 2X Brilliant III SYBR® Green QRT-PCR Master Not applicable.

Not applicable.

Mix

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

2.3 Other hazards

**Product meets the** criteria for PBT or vPvB according to

1907/2006, Annex XIII

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

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Regulation (EC) No.

RT/RNase Block

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Reference Dye This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

100 mM DTT This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

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

Mix

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

### **SECTION 3: Composition/information on ingredients**

2X Brilliant III SYBR® Green QRT-3.1 Substances Mixture

PCR Master Mix

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

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
X Brilliant III SYBR® Green QRT-PCR Master Mix				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
RT/RNase Block				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
100 mM DTT				
(R*,R*)-1,4-Dimercaptobutane- 2,3-diol	EC: 222-468-7 CAS: 3483-12-3	≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	[1]

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Brilliant III Ultra-Fast SYBR Green QRT-PCR Master	Mix, Part Number 600886
SECTION 3: Composition/information	n on ingredients
	See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

1 1	Description	a of firet	aid m	ASSIITAS

<b>SECTION 4: Fir</b>	rst aid measures	
4.1 Description of firs	st aid measures	
Eye contact	Green QRT-PCR Master lifting the upp Mix any contact lo RT/RNase Block Immediately lifting the upp	flush eyes with plenty of water, occasionally per and lower eyelids. Check for and remove enses. Get medical attention if irritation occurs. flush eyes with plenty of water, occasionally per and lower eyelids. Check for and remove enses. Get medical attention if irritation occurs.
	Reference Dye Immediately lifting the upp any contact lo	flush eyes with plenty of water, occasionally per and lower eyelids. Check for and remove enses. Get medical attention if irritation occurs.
	lifting the upp	flush eyes with plenty of water, occasionally per and lower eyelids. Check for and remove enses. Get medical attention if irritation occurs.
Inhalation	Green QRT-PCR Master comfortable to Mix symptoms of RT/RNase Block Remove victi	im to fresh air and keep at rest in a position for breathing. Get medical attention if
	Reference Dye Remove victi comfortable t symptoms oc products in a	im to fresh air and keep at rest in a position for breathing. Get medical attention if ccur. In case of inhalation of decomposition fire, symptoms may be delayed. The exposed need to be kept under medical surveillance for
		im to fresh air and keep at rest in a position for breathing. Get medical attention if cour.
Skin contact		ninated skin with plenty of water. Remove d clothing and shoes. Get medical attention if

RT/RNase Block

symptoms occur.

Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Flush contaminated skin with plenty of water. Remove Reference Dye

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.

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### **SECTION 4: First aid measures**

: 2X Brilliant III SYBR® Ingestion

Green QRT-PCR Master

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.

RT/RNase Block 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.

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.

**Protection of first-aiders** : 2X Brilliant III SYBR®

Green QRT-PCR Master

No action shall be taken involving any personal risk or without suitable training.

No known significant effects or critical hazards.

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

without suitable training.

No action shall be taken involving any personal risk or Reference Dye

without suitable training.

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

without suitable training.

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

Potential acute health effects

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

Green QRT-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. No known significant effects or critical hazards.

Inhalation 2X Brilliant III SYBR®

Green 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.

Skin contact 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

: 2X Brilliant III SYBR® Ingestion

Green 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.

Over-exposure signs/symptoms

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### **SECTION 4: First aid measures**

**Inhalation** 

**Eye contact** 2X Brilliant III SYBR® No specific data.

Green 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® No specific data.

Green ORT-PCR Master

Mix

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

**Skin contact** 2X Brilliant III SYBR® Green QRT-PCR Master

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

Ingestion Green QRT-PCR Master

Mix

RT/RNase Block Reference Dye 100 mM DTT

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

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

RT/RNase Block

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

No specific treatment.

Reference Dye

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

100 mM DTT

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

: 2X Brilliant III SYBR® **Specific treatments** 

Green QRT-PCR Master

Mix

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

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

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

Use an extinguishing agent suitable for the surrounding fire.

Mix

RT/RNase Block Reference Dye 100 mM DTT

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

### 5.2 Special hazards arising from the substance or mixture

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None known.

### **SECTION 5: Firefighting measures**

Hazards from the substance or mixture

: 2X Brilliant III SYBR®

Green QRT-PCR Master container may burst.

Mix

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 combustion products

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

Mix

Decomposition products may include the following materials:

In a fire or if heated, a pressure increase will occur and the

carbon dioxide carbon monoxide sulfur oxides

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 precautions for fire-fighters

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

Mix

RT/RNase Block

Reference Dye

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. 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 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 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

100 mM DTT Fire-fighters should wear appropriate protective equipment

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### **SECTION 5: Firefighting measures**

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

0.4.5	4.	4 44			
6.1 Personal	precautions.	protective ed	guipment and	l emeraencv	procedures

For non-emergency personnel

: 2X Brilliant III SYBR® Green 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 spilt material. 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 spilt material. Put on appropriate personal protective equipment.

Reference Dye

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

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 spilt material. Put on appropriate personal protective equipment.

For emergency responders

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

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

RT/RNase Block

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Reference Dye

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

100 mM DTT

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

6.2 Environmental precautions

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

Mix

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

RT/RNase Block

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Reference Dye

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

100 mM DTT

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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### SECTION 6: Accidental release measures

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

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

Mix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and

place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

**Protective measures** : 2X Brilliant III SYBR®

Green QRT-PCR Master

RT/RNase Block

Put on appropriate personal protective equipment (see

Put on appropriate personal protective equipment (see

Section 8).

Section 8).

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 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 contaminated clothing and protective equipment before entering eating areas. See also

Section 8 for additional information on hygiene measures. 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 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

Reference Dye 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 Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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### **SECTION 7: Handling and storage**

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage** 

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

Mix

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

contamination. See Section 10 for incompatible materials

before handling or use.

RT/RNase Block Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Reference Dye Store in accordance with local regulations. Store in original

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

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

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 unlabelled 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 : 2X Brilliant III SYBR® Industrial applications, Professional applications.

Green QRT-PCR Master

Mix

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

Not available.

**Industrial sector specific** 2X Brilliant III SYBR® solutions

Green QRT-PCR Master

Mix

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

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### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
2X Brilliant III SYBR® Green QRT-PCR Master Mix	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
RT/RNase Block Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist

## Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **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: safety glasses with sideshields.

### **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.

**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.

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### **SECTION 8: Exposure controls/personal protection**

**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.

**Environmental exposure** controls

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.

### **SECTION 9: Physical and chemical properties**

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

### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : 2X Brilliant III SYBR® Liquid.

Green QRT-PCR Master

Mix

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

Colour 2X Brilliant III SYBR® Not available.

Green QRT-PCR Master

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

**Odour** 2X Brilliant III SYBR® Not available.

Green QRT-PCR Master

Mix

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

**Odour threshold** 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

Melting point/freezing

point

Green QRT-PCR Master

Mix

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

Not available.

100 mM DTT 0°C

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) 2X Brilliant III SYBR® Not applicable.

Flammability (solid, gas)

Green QRT-PCR Master

Mix

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

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### **SECTION 9: Physical and chemical properties**

Upper/lower flammability : 2X Brilliant III SYBR® or explosive limits

Not available.

Green QRT-PCR Master

Mix

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

Flash point

	Closed cu		р		Open cup	
Ingredient name	°C	°F	Method	°C	°F	Method
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]omegahydroxy-	>109.85	>229.7				
100 mM DTT						
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230				

**Auto-ignition** temperature

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

Not available.

**Decomposition** temperature

: 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

: 2X Brilliant III SYBR® 7.8 pН

Green QRT-PCR Master

Mix

RT/RNase Block 8 Reference Dye 8

100 mM DTT Not available.

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

Green QRT-PCR Master

Mix

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

Solubility(ies)

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### **SECTION 9: Physical and chemical properties**

2X Brilliant III SYBR®

Easily soluble in the following materials: cold water and hot

Green QRT-PCR Master water.

Mix

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

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

Not applicable.

Partition coefficient: noctanol/water

2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

Vapour pressure

	Vapour Pressure at 20°C		Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
X 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	

**Evaporation rate** 

2X Brilliant III SYBR®

Not available.

Green QRT-PCR Master

Mix

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

**Relative density** 

2X Brilliant III SYBR®

Not available.

Green QRT-PCR Master

Mix

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

Vapour density

Green QRT-PCR Master

Mix

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

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### **SECTION 9: Physical and chemical properties**

**Explosive properties** 2X Brilliant III SYBR® Not available.

Green QRT-PCR Master

Mix

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

**Oxidising properties** 2X Brilliant III SYBR®

Green QRT-PCR Master

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

**Particle characteristics** 

Median particle size : 2X Brilliant III SYBR® Not applicable.

Green QRT-PCR Master

Mix

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

#### 9.2 Other information

No additional information.

### SECTION 10: Stability and reactivity

10.1 Reactivity 2X Brilliant III SYBR® No specific test data related to reactivity available for this Green QRT-PCR Master product or its ingredients.

Mix

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

product or its ingredients.

Reference Dye No specific test data related to reactivity available for this

product or its ingredients.

100 mM DTT No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability 2X Brilliant III SYBR® The product is stable.

Green QRT-PCR Master

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

2X Brilliant III SYBR® 10.3 Possibility of hazardous reactions

Green QRT-PCR Master

Mix

Under normal conditions of storage and use, hazardous

reactions will not occur.

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

reactions will not occur.

Under normal conditions of storage and use, hazardous Reference Dye

reactions will not occur.

100 mM DTT Under normal conditions of storage and use, hazardous

reactions will not occur.

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

Green QRT-PCR Master

Mix

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

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### **SECTION 10: Stability and reactivity**

10.5 Incompatible

materials

2X Brilliant III SYBR®

Green QRT-PCR Master

May react or be incompatible with oxidising materials.

RT/RNase Block Reference Dye 100 mM DTT

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

10.6 Hazardous

decomposition products

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

Mix

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

RT/RNase Block

Reference Dve

100 mM DTT

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

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

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Not available.

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
100 mM DTT 100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol			N/A N/A		N/A N/A

#### **Irritation/Corrosion**

**Conclusion/Summary** : Not available.

**Sensitiser** 

**Conclusion/Summary** : 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)

Product/ingredient 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.

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### **SECTION 11: Toxicological information**

Information on likely routes of exposure

Ingestion

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

Routes of entry anticipated: Oral, Dermal, Inhalation.

Mix

RT/RNase Block Reference Dye

Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

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

Potential acute health effects

Inhalation : 2X Brilliant III SYBR®

Green QRT-PCR Master

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No known significant effects or critical hazards.

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.

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

Green QRT-PCR Master

Mix

Mix

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

Skin contact : 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

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

Green QRT-PCR Masie

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

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

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
No specific data.
No specific data.
Rrilliant III SYBR®
No specific data.

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

Green QRT-PCR Master

Mix

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

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

Green QRT-PCR Master

Mix

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

Eye contact : 2X Brilliant III SYBR® No s

Green 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 as well as chronic effects from short and long-term exposure

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

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### **SECTION 11: Toxicological information**

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

: Not available. **Potential delayed** 

effects

Potential chronic health effects

**General** : 2X Brilliant III SYBR®

Green QRT-PCR Master

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

No known significant effects or critical hazards.

Carcinogenicity : 2X Brilliant III SYBR®

Green QRT-PCR Master

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

Mutagenicity 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

Reproductive toxicity

2X Brilliant III SYBR®

Green QRT-PCR Master

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

Not available.

Other information

: 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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

100 mM DTT

Adverse symptoms may include the following: May cause

sensitisation by skin contact.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
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

Not available.

#### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

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### SECTION 12: Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects**: No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

**Packaging** 

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

#### **Additional information**

14.6 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.

14.7 Transport in bulk according to IMO instruments

Not available.

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### **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous

substances, mixtures and articles

Label : 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.

**Other EU regulations** 

Industrial emissions : Listed

(integrated pollution prevention and control)

- Air

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**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.

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### **SECTION 15: Regulatory information**

Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

#### Full text of abbreviated H statements

<b>7</b> 00 mM DTT	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

#### Full text of classifications [CLP/GHS]

Acute Tox. 4
Aquatic Chronic 3
Eye Irrit. 2
Skin Irrit. 2
STOT SE 3

**ACUTE TOXICITY - Category 4** 

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

SKIN CORROSION/IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

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#### **Notice to reader**

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