SAFETY DATA SHEET



Brilliant II SYBR Green QRT-PCR Master Mix - 1-Step - 10-pack, Part Number 600826

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

1.1 Product identifier

Product name : Brilliant II SYBR Green QRT-PCR Master Mix - 1-Step - 10-pack, Part Number 600826

Part no. (chemical kit) : 600826

Part no. 2X Brilliant II SYBR® QRT-PCR Master Mix 600825-51

Reference Dye 600530-53 RT/RNase Block Enzyme Mixture 600825-52

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

Identified uses : Analytical reagent.

> 2X Brilliant II SYBR® QRT-PCR Master Mix 20 x 2.5 ml

Reference Dye 0.1 ml (100 µl 1 mM)

RT/RNase Block Enzyme Mixture 0.4 ml

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH

Hewlett-Packard-Str. 8 76337 Waldbronn

Germany 0800 603 1000

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 II SYBR® Mixture

QRT-PCR Master Mix

Reference Dve Mixture RT/RNase Block Mixture

Enzyme Mixture

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

Mixture

Not classified.

2X Brilliant II SYBR® QRT-PCR The product is not classified as hazardous according to Regulation (EC)

Master Mix 1272/2008 as amended.

The product is not classified as hazardous according to Regulation (EC) Reference Dye

1272/2008 as amended.

RT/RNase Block Enzyme Mixture The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Ingredients of unknown

toxicity

: 2X Brilliant II SYBR® QRT- Percentage of the mixture consisting of ingredient(s) of

PCR Master Mix unknown acute inhalation toxicity: 10 - 30%

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

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

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

unknown acute inhalation toxicity: 30 - 60%

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SECTION 2: Hazards identification

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 II SYBR® No signal word.

QRT-PCR Master Mix

Reference Dye No signal word. RT/RNase Block No signal word.

Enzyme Mixture

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

> **QRT-PCR Master Mix** Reference Dye

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

Not applicable.

Not applicable.

Precautionary statements

Prevention : 2X Brilliant II SYBR® Not applicable.

QRT-PCR Master Mix

Reference Dye Not applicable. RT/RNase Block Not applicable. **Enzyme Mixture**

2X Brilliant II SYBR® Response

QRT-PCR Master Mix

Reference Dye Not applicable. Not applicable. RT/RNase Block **Enzyme Mixture**

: 2X Brilliant II SYBR® **Storage**

QRT-PCR Master Mix

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

Disposal : 2X Brilliant II SYBR® Not applicable.

> **QRT-PCR Master Mix** Reference Dye Not applicable. Not applicable. RT/RNase Block Enzyme Mixture

Supplemental label

on the manufacture,

elements

: 2X Brilliant II SYBR® Not applicable.

QRT-PCR Master Mix Reference Dye

Not applicable. RT/RNase Block Not applicable.

Enzyme Mixture Annex XVII - Restrictions 2X Brilliant II SYBR® **QRT-PCR Master Mix**

Reference Dye placing on the market RT/RNase Block and use of certain **Enzyme Mixture** dangerous substances, mixtures and articles

Not applicable.

Not applicable. Not applicable.

Special packaging requirements

Tactile warning of

danger

: 2X Brilliant II SYBR®

RT/RNase Block

Enzyme Mixture

QRT-PCR Master Mix Reference Dye

Not applicable.

Not applicable. Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No.

Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do not result in classification

: 2X Brilliant II SYBR® QRT-PCR Master Mix Reference Dye

received bye

RT/RNase Block Enzyme Mixture : 2X Brilliant II SYBR®

QRT-PCR Master Mix Reference Dye RT/RNase Block Enzyme Mixture This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

None known.

None known. None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : 2X Brilliant II SYBR® QRT-PCR Mixture

Master Mix

Reference Dye Mixture RT/RNase Block Enzyme Mixture Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
2X Brilliant II SYBR® QRT- PCR Master Mix					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]
RT/RNase Block Enzyme Mixture					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
			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

2X Brilliant II SYBR® QRT-PCR Master Mix [RT/RNase Block Enzyme Mixture]

[1] Substance with a workplace exposure limit [1] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : 2X Brilliant II SYBR®

QRT-PCR Master Mix

Reference Dye

RT/RNase Block Enzyme Mixture Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. 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.

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SECTION 4: First aid measures

Inhalation 2X Brilliant II SYBR® Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if **QRT-PCR Master Mix**

symptoms occur.

Remove victim to fresh air and keep at rest in a position Reference Dye

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.

RT/RNase Block Remove victim to fresh air and keep at rest in a position

Enzyme Mixture comfortable for breathing. Get medical attention if

symptoms occur.

Skin contact : 2X Brilliant II SYBR® Flush contaminated skin with plenty of water. Remove

> **QRT-PCR Master Mix** contaminated clothing and shoes. Get medical attention if

symptoms occur.

Reference Dye Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

RT/RNase Block Flush contaminated skin with plenty of water. Remove **Enzyme Mixture**

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : 2X Brilliant II SYBR® Wash out mouth with water. If material has been swallowed

QRT-PCR Master Mix 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.

Wash out mouth with water. If material has been swallowed Reference Dye

> 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 Enzyme Mixture

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 II SYBR® No action shall be taken involving any personal risk or

> **QRT-PCR Master Mix** without suitable training.

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

without suitable training.

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

Enzyme Mixture without suitable training.

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

Eye contact : 2X Brilliant II SYBR® No known significant effects or critical hazards.

QRT-PCR Master Mix Reference Dye No known significant effects or critical hazards. RT/RNase Block No known significant effects or critical hazards. Enzyme Mixture

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

QRT-PCR Master Mix No known significant effects or critical hazards. Reference Dye No known significant effects or critical hazards. RT/RNase Block **Enzyme Mixture**

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

QRT-PCR Master Mix Reference Dye No known significant effects or critical hazards. RT/RNase Block No known significant effects or critical hazards. Enzyme Mixture

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SECTION 4: First aid measures

2X Brilliant II SYBR® Ingestion

QRT-PCR Master Mix Reference Dye RT/RNase Block

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

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

QRT-PCR Master Mix

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

Enzyme Mixture

Enzyme Mixture

Inhalation 2X Brilliant II SYBR® No specific data.

QRT-PCR Master Mix

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

: 2X Brilliant II SYBR® **Skin contact**

QRT-PCR Master Mix

Reference Dve No specific data. RT/RNase Block No specific data. **Enzyme Mixture**

: 2X Brilliant II SYBR® Ingestion

QRT-PCR Master Mix

Reference Dye RT/RNase Block **Enzyme Mixture**

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : 2X Brilliant II SYBR®

QRT-PCR Master Mix

Reference Dye

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

RT/RNase Block Enzyme Mixture

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

Specific treatments : 2X Brilliant II SYBR®

QRT-PCR Master Mix

Reference Dye RT/RNase Block

Enzyme Mixture

No specific treatment. No specific treatment.

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: 2X Brilliant II SYBR®

QRT-PCR Master Mix Reference Dye RT/RNase Block **Enzyme Mixture**

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 II SYBR® **QRT-PCR Master Mix**

Reference Dve RT/RNase Block Enzyme Mixture

None known.

None known. None known.

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

Hazards from the substance or mixture : 2X Brilliant II SYBR® **QRT-PCR Master Mix** Reference Dye

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

container may burst.

RT/RNase Block **Enzyme Mixture**

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

container may burst.

Hazardous combustion products

: 2X Brilliant II SYBR® **QRT-PCR Master Mix** Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

Reference Dye Decomposition products may include the following materials:

> carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

RT/RNase Block Enzyme Mixture

Decomposition products may include the following materials:

Promptly isolate the scene by removing all persons from the

taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the

Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

carbon dioxide carbon monoxide

5.3 Advice for firefighters

Special precautions for fire-fighters

Special protective

equipment for fire-

fighters

: 2X Brilliant II SYBR® **QRT-PCR Master Mix**

Reference Dye

RT/RNase Block **Enzyme Mixture**

: 2X Brilliant II SYBR® **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.

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 Enzyme Mixture

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 2X Brilliant II SYBR® **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.

No action shall be taken involving any personal risk or Reference Dye without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

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SECTION 6: Accidental release measures

appropriate personal protective equipment.

RT/RNase Block

No action shall be taken involving any personal risk or

Enzyme Mixture 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 II SYBR® ORT-PCR Master Mix 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".

RT/RNase Block Enzyme Mixture 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 II SYBR® 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).

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).

RT/RNase Block Enzyme Mixture 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: 2X Brilliant II SYBR® 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.

Reference Dye Stop leak if without risk. Move containers f

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 Enzyme Mixture 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 II SYBR®

Put on appropriate personal protective equipment (see

QRT-PCR Master Mix Section 8).

Reference Dye

Put on appropriate personal protective equipment (see

Section 8).

RT/RNase Block Put on appropriate personal protective equipment (see

Enzyme Mixture Section 8).

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SECTION 7: Handling and storage

Advice on general occupational hygiene

2X Brilliant II SYBR® QRT-PCR Master Mix

Reference Dye

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

drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas

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

Section 8 for additional information on hygiene measures.

RT/RNase Block
Enzyme Mixture
Enzyme Mixture
Enzyme Mixture
Enzyme Mixture
Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also

7.2 Conditions for safe storage, including any incompatibilities

Storage

: 2X Brilliant II SYBR® 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.

Reference Dye Store in accord

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

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

RT/RNase Block Enzyme Mixture 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 II SYBR® QRT-PCR Master Mix Reference Dye RT/RNase Block Enzyme Mixture

Industrial applications, Professional applications.

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

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SECTION 7: Handling and storage

Industrial sector specific

solutions

: 2X Brilliant II SYBR®

QRT-PCR Master Mix

Not available. Not available.

Not available.

RT/RNase Block Enzyme Mixture

Reference Dye

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2X Brilliant II SYBR® QRT-PCR Master Mix Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)
RT/RNase Block Enzyme Mixture Glycerol	OELV: 10 mg/m³ 8 hours. Form: mist NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: 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.

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SECTION 8: Exposure controls/personal protection

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.

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

_				
An	pe	ara	ınce	•

Physical state : 2X Brilliant II SYBR® Liquid.

QRT-PCR Master Mix

Reference Dye Liquid. RT/RNase Block Liquid.

Enzyme Mixture

: 2X Brilliant II SYBR® Not available. Colour

QRT-PCR Master Mix

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

Enzyme Mixture

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

QRT-PCR Master Mix

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

Enzyme Mixture

Odour threshold 2X Brilliant II SYBR® Not available.

QRT-PCR Master Mix

Reference Dye Not available. RT/RNase Block Not available. **Enzyme Mixture**

Melting point/freezing

point

2X Brilliant II SYBR®

Not available. **QRT-PCR Master Mix**

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

Enzyme Mixture

Initial boiling point and

boiling range

2X Brilliant II SYBR®

Not available. **QRT-PCR Master Mix**

Not available. Reference Dye RT/RNase Block Not available. **Enzyme Mixture**

Flammability 2X Brilliant II SYBR®

QRT-PCR Master Mix

Reference Dve Not applicable. RT/RNase Block Not applicable. Enzyme Mixture

Upper/lower flammability or explosive limits

2X Brilliant II SYBR®

Not available.

Not applicable.

QRT-PCR Master Mix Reference Dye Not available. RT/RNase Block Not available. **Enzyme Mixture**

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SECTION 9: Physical and chemical properties

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	Closed cup		Open cup	
Ingredient name	°C	Method	°C	Method
2X Brilliant II SYBR® QRT-PCR Master Mix				
dimethyl sulfoxide	87	ASTM D 93	87	-
glycerol	-	-	177	-
RT/RNase Block Enzyme Mixture				
glycerol	-	-	177	-

Auto-ignition temperature

glycerol -	-	177 -
Ingredient name	°C	Method
2X Brilliant II SYBR® QRT-PCR Master Mix		
dimethyl sulfoxide	300 to 302	-
glycerol	370	-
RT/RNase Block Enzyme Mixture		
glycerol	370	-

Decomposition temperature

: 2X Brilliant II SYBR®

Not available. **QRT-PCR Master Mix**

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

Enzyme Mixture

: 2X Brilliant II SYBR® pH

QRT-PCR Master Mix Reference Dye 8 RT/RNase Block 8

Enzyme Mixture

: 2X Brilliant II SYBR® Not available. **Viscosity**

QRT-PCR Master Mix

Reference Dye Not available. RT/RNase Block Not available. **Enzyme Mixture**

Solubility(ies)

Media Result 2X Brilliant II SYBR® QRT-PCR Master Mix water Soluble Reference Dye Soluble water RT/RNase Block Enzyme Mixture Soluble water

Partition coefficient: noctanol/water

: 2X Brilliant II SYBR® Not applicable.

QRT-PCR Master Mix

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

Enzyme Mixture

Vapour pressure

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SECTION 9: Physical and chemical properties

	Vapour Pressure at 20°C		e at 20°C	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
2X Brilliant II SYBR® QRT-PCR Master Mix						
water	17.5	2.3	-	92.258	12.3	-
dimethyl sulfoxide	0.42	0.056	EU A.4	-	-	-
Reference Dye						
water	17.5	2.3	-	92.258	12.3	-
RT/RNase Block Enzyme Mixture						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-

Evaporation rate

Vapour density

: 2X Brilliant II SYBR®

QRT-PCR Master Mix

Reference Dye NRT/RNase Block N

Enzyme Mixture

Relative density : 2X Brilliant II SYBR®

QRT-PCR Master Mix

Reference Dye RT/RNase Block Enzyme Mixture

2X Brilliant II SYBR® QRT-PCR Master Mix

Reference Dye RT/RNase Block Enzyme Mixture

: 2X Brilliant II SYBR®

QRT-PCR Master Mix
Reference Dye

Reference Dye RT/RNase Block Enzyme Mixture

Oxidising properties : 2X Brilliant II SYBR® QRT-PCR Master Mix

Reference Dye RT/RNase Block Enzyme Mixture Not available.

Not available. Not available.

Not available.

Not available.

Not available. Not available.

Not available.

ivot avallable.

Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Particle characteristics

Explosive properties

Median particle size

: 2X Brilliant II SYBR® QRT-PCR Master Mix Reference Dye

RT/RNase Block Enzyme Mixture Not applicable.

Not applicable. Not applicable.

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity : 2X Brilliant II SYBR® QRT-PCR Master Mix

Reference Dye

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

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

RT/RNase Block Enzyme Mixture

No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : 2X Brilliant II SYBR®

QRT-PCR Master Mix Reference Dye RT/RNase Block Enzyme Mixture The product is stable.

The product is stable. The product is stable.

10.3 Possibility of hazardous reactions

: 2X Brilliant II SYBR® QRT-PCR Master Mix Reference Dye

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur.

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

reactions will not occur.

10.4 Conditions to avoid

: 2X Brilliant II SYBR® QRT-PCR Master Mix Reference Dye RT/RNase Block Enzyme Mixture No specific data.

No specific data. No specific data.

10.5 Incompatible materials

: 2X Brilliant II SYBR® QRT-PCR Master Mix Reference Dye RT/RNase Block Enzyme Mixture 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 II SYBR® QRT-PCR Master Mix Reference Dye 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.

RT/RNase Block Enzyme Mixture

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

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.

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SECTION 11: Toxicological information

Teratogenicity

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

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: 2X Brilliant II SYBR®

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

QRT-PCR Master Mix Reference Dye

Not available.

RT/RNase Block

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Enzyme Mixture

Potential acute health effects

Inhalation : 2X Brilliant II SYBR®

QRT-PCR Master Mix

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

RT/RNase Block Enzyme Mixture

Reference Dye

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

QRT-PCR Master Mix

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

Skin contact : 2X Brilliant II SYBR®

QRT-PCR Master Mix

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

Enzyme Mixture

Eye contact : 2X Brilliant II SYBR® No known significant effects or critical hazards.

QRT-PCR Master Mix

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

Symptoms related to the physical, chemical and toxicological characteristics

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

QRT-PCR Master Mix

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

Enzyme Mixture

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

QRT-PCR Master Mix

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

Enzyme Mixture

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

QRT-PCR Master Mix

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

Enzyme Mixture

Eye contact : 2X Brilliant II SYBR® No specific data.

QRT-PCR Master Mix

Reference Dye No specific data. RT/RNase Block No specific data. Enzyme Mixture

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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SECTION 11: Toxicological information

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

Conclusion/Summary

: Not available.

General

: 2X Brilliant II SYBR®

QRT-PCR Master Mix

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

No known significant effects or critical hazards.

Enzyme Mixture

Carcinogenicity

2X Brilliant II SYBR®

QRT-PCR Master Mix Reference Dve

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

No known significant effects or critical hazards.

2V Brilliant II SVBD®

Mutagenicity : 2X Brilliant II SYBR®

QRT-PCR Master Mix Reference Dye RT/RNase Block

Enzyme Mixture

No known significant effects or critical hazards.

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

Reproductive toxicity

: 2X Brilliant II SYBR® QRT-PCR Master Mix

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

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

RT/RNase Block Enzyme Mixture Adverse symptoms may include the following: May cause skin sensitisation.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

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SECTION 12: Ecological information

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 Endocrine disrupting properties

Not available.

12.7 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 or ID 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.

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SECTION 14: Transport information

14.7 Transport in bulk

according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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

No listed substance

Label : 2X Brilliant II SYBR® QRT- Not applicable.

PCR Master Mix

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

Mixture

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 : Not determined.

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SECTION 15: Regulatory information

Eurasian Economic

Union

: Russian Federation inventory: All components are listed or exempted.

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.

15.2 Chemical safety

United States

assessment

Viet Nam

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

be required.

: Not determined.

: Not determined.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

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

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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