

SAFETY DATA SHEET



Brilliant II SYBR Green QRT-PCR High ROX Master Mix - 1-Step, Part
Number 600836

Section 1. Identification

Product identifier : Brilliant II SYBR Green QRT-PCR High ROX Master Mix - 1-Step, Part Number 600836

Part No. (Chemical Kit) : 600836

Part No. : Brilliant II SYBR® QRT-PCR High ROX Master Mix 600836-51
RT/RNase Block Enzyme Mixture 600825-52

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

Analytical reagent.

Brilliant II SYBR® QRT-PCR High ROX Master Mix 2 × 2.5 ml
RT/RNase Block Enzyme Mixture 0.4 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%

GHS label elements

Signal word : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
No signal word.
No signal word.

Hazard statements : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Precautionary statements

Prevention : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
Not applicable.
Not applicable.

Response : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
Not applicable.
Not applicable.

Section 2. Hazard(s) identification

Storage	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not applicable. Not applicable.
Disposal	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not applicable. Not applicable.
Supplemental label elements		
Additional warning phrases	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not applicable. Not applicable.
Other hazards which do not result in classification	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Mixture Mixture
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CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix		
Glycerol	≥10 - ≤30	56-81-5
Dimethyl sulfoxide	≤10	67-68-5
RT/RNase Block Enzyme Mixture		
Glycerol	≥30 - ≤60	56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix 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.
Inhalation	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First aid measures

Skin contact	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Inhalation	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Skin contact	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Ingestion	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.

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

Section 4. First aid measures

Notes to physician	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific treatment. No specific treatment.
Protection of first-aiders	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	None known. None known.
Specific hazards arising from the chemical	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	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.
Hazardous thermal decomposition products	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	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	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX 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 Enzyme Mixture	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	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX 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".
	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".
Environmental precautions	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX 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 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).

Methods and material for containment and cleaning up

Methods for cleaning up	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX 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 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
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Section 7. Handling and storage

Advice on general occupational hygiene

: Brilliant II SYBR® QRT-PCR High ROX 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 Enzyme Mixture

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.

Conditions for safe storage, including any incompatibilities

: Brilliant II SYBR® QRT-PCR High ROX 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.

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 Enzyme Mixture

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix Glycerol Dimethyl sulfoxide	<p>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.</p> <p>DFG MAC-values list (Germany, 7/2015). Absorbed through skin. PEAK: 320 mg/m³, 4 times per shift, 15 minutes. TWA: 160 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours.</p>
RT/RNase Block Enzyme Mixture Glycerol	<p>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.</p>

Section 8. Exposure controls and personal protection

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.

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

Section 9. Physical and chemical properties

Appearance

- Physical state** : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Liquid.
- Colour** : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
- Odour** : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
- Odour threshold** : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
- pH** : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture 8

Section 9. Physical and chemical properties

Melting point	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Boiling point	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Flash point	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Evaporation rate	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Flammability (solid, gas)	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not applicable. Not applicable.
Lower and upper explosive (flammable) limits	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Vapour pressure	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Vapour density	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Relative density	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Solubility	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Auto-ignition temperature	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Decomposition temperature	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Viscosity	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.

Section 10. Stability and reactivity

Reactivity	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	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.
Chemical stability	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	The product is stable. The product is stable.
Possibility of hazardous reactions	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Incompatible materials	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
Hazardous decomposition products	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	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

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
RT/RNase Block Enzyme Mixture Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-

Section 11. Toxicological information

RT/RNase Block Enzyme Mixture Glycerol	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

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 : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
Routes of entry anticipated: Oral, Dermal, Inhalation.
Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Inhalation : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Skin contact : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Ingestion : Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Inhalation	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Skin contact	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Ingestion	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. 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.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Not available.

General	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: <input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Glycerol	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Dimethyl sulfoxide	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 µl/L Marine water	Algae - Ulva lactuca	72 hours
RT/RNase Block Enzyme Mixture			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Glycerol				
RT/RNase Block Enzyme Mixture				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> Brilliant II SYBR® QRT-PCR High ROX Master Mix			
Glycerol	-1.76	-	low
Dimethyl sulfoxide	-1.35	3.16	low
RT/RNase Block Enzyme Mixture			
Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. 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

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

6

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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 : All components are listed or exempted.
China : All components are listed or exempted.
Europe : Not determined.
Japan : **Japan inventory (ENCS):** Not determined.
Japan inventory (ISHL): Not determined.
Malaysia : Not determined.
New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : Not determined.

Section 15. Regulatory information

Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 27/10/2017

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Version : 5

Key to abbreviations

: ADG = Australian Dangerous Goods
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 NOHSC = National Occupational Health and Safety Commission
 SUSMP = Standard Uniform Schedule of Medicine and Poisons
 UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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