

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.	: 2X 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

Material uses	: Analytical reagent.		
	: 2X 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		
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Emergency telephone number (with hours of operation)	: CHEMTREC®: +(61)-290372994		
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Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	No signal word.
	: RT/RNase Block Enzyme Mixture	No signal word.
Hazard statements	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	No known significant effects or critical hazards.
	: RT/RNase Block Enzyme Mixture	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	Not applicable.
	: RT/RNase Block Enzyme Mixture	Not applicable.
Response	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	Not applicable.
	: RT/RNase Block Enzyme Mixture	Not applicable.
Storage	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	Not applicable.
	: RT/RNase Block Enzyme Mixture	Not applicable.

Section 2. Hazard(s) identification

Disposal	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	Not applicable.
	RT/RNase Block Enzyme Mixture	Not applicable.
Supplemental label elements		
Additional warning phrases	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	Not applicable.
	RT/RNase Block Enzyme Mixture	Not applicable.
Other hazards which do not result in classification	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	None known.
	RT/RNase Block Enzyme Mixture	None known.

Section 3. Composition and ingredient information

Substance/mixture	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	Mixture
	RT/RNase Block Enzyme Mixture	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
2X 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	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	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.
	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.
Inhalation	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	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.
Skin contact	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RT/RNase Block Enzyme Mixture	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	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. 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.
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Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 2X 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	: 2X 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	: 2X 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	: 2X 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	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Inhalation	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Skin contact	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Ingestion	: 2X 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

Notes to physician	: 2X 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	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific treatment. No specific treatment.

Section 4. First aid measures

Protection of first-aiders	: 2X 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.
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See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: 2X 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.
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Unsuitable extinguishing media	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	None known. None known.
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Specific hazards arising from the chemical	: 2X 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.
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Hazardous thermal decomposition products	: 2X 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
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Special protective actions for fire-fighters	: 2X 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.
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Special protective equipment for fire-fighters	: 2X 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.
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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 2X 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. 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 without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected
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Section 6. Accidental release measures

For emergency responders : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix

RT/RNase Block Enzyme Mixture

personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

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".

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

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).

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

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.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : 2X Brilliant 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).

Advice on general occupational hygiene : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix

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.

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 7. Handling and storage

Conditions for safe storage, including any incompatibilities : 2X 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.

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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2X Brilliant II SYBR® QRT-PCR High ROX Master Mix Glycerol Dimethyl sulfoxide	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m ³ 8 hours. DFG MAC-values list (Germany, 8/2020). Absorbed through skin. PEAK: 320 mg/m ³ , 4 times per shift, 15 minutes. TWA: 160 mg/m ³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours.
RT/RNase Block Enzyme Mixture Glycerol	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m ³ 8 hours.

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.

Section 8. Exposure controls and personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: 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** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Liquid.
Liquid.
- Colour** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
Not available.
- Odour** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
Not available.
- Odour threshold** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
Not available.
- pH** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
8
- Melting point** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
Not available.
- Boiling point** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
Not available.
- Flash point** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
Not available.
- Evaporation rate** : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture Not available.
Not available.

Section 9. Physical and chemical properties

Flammability (solid, gas)	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not applicable. Not applicable.
Lower and upper explosive (flammable) limits	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Vapour pressure	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Vapour density	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Relative density	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Solubility	: 2X 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	: 2 X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not applicable. Not applicable.
Auto-ignition temperature	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Decomposition temperature	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.
Viscosity	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	Not available. Not available.

Section 10. Stability and reactivity

Reactivity	: 2X 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	: 2X 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	: 2X 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.

Section 10. Stability and reactivity

Conditions to avoid	: 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture	No specific data. No specific data.
Incompatible materials	: 2X 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	: 2X 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
2X 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
2X Brilliant II SYBR® QRT-PCR High ROX Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
RT/RNase Block Enzyme Mixture Glycerol	Skin - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
Glycerol	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Section 11. Toxicological information

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : 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 : 2X 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 : 2X 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 : 2X 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 : 2X 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 : 2X 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

Eye contact : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
No specific data.
No specific data.

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

Skin contact : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture
No specific data.
No specific data.

Ingestion : 2X 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.

Section 11. Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: 2X 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	: 2X 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	: 2X 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.
Reproductive toxicity	: <input checked="" type="checkbox"/> 2X 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

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
2X Brilliant II SYBR® QRT-PCR High ROX Master Mix					
Glycerol	12600	N/A	N/A	N/A	N/A
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
RT/RNase Block Enzyme Mixture					
Glycerol	12600	N/A	N/A	N/A	N/A

Other information : 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix RT/RNase Block Enzyme Mixture

Not available.

Adverse symptoms may include the following: May cause skin sensitisation.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> 2X Brilliant II SYBR® QRT-PCR High ROX Master Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 µl/L Marine water	Algae - Ulva lactuca	72 hours
	Chronic NOEC 100 µl/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days

Section 12. Ecological information

RT/RNase Block Enzyme Mixture Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
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Persistence and degradability

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2X Brilliant II SYBR® QRT-PCR High ROX Master Mix Dimethyl sulfoxide	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2X 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

Section 13. Disposal considerations

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 IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines 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

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 (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: <input checked="" type="checkbox"/> All components are active or exempted.
Viet Nam	: Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 29/08/2021

Date of previous issue : 25/04/2019

Version : 7

Key to abbreviations

: ADG = Australian Dangerous Goods
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 N/A = Not available
 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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