

SAFETY DATA SHEET

Brilliant QPCR Master Mix, Catalog #600549

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

1.1 Product identifier

Product name : Brilliant QPCR Master Mix, Catalog #600549
Part No. (Kit) : 600549
Part No. : 2× Brilliant QPCR Master 600549-51
 Mix
 Reference dye, 1mM 600530-53

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

Identified uses	
Analytical reagent.	
2× Brilliant QPCR Master Mix	5 ml (2.5 ml / Tube)
Reference dye, 1mM	0.1 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
 Hewlett-Packard-Str. 8
 76337 Waldbronn
 Germany
 0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

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 : 2× Brilliant QPCR Master Mixture
 Mix
 Reference dye, 1mM Mixture

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

2× Brilliant QPCR Master Mix

H373i SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): INHALATION [kidneys] - Category 2

Classification according to Directive 1999/45/EC [DPD]

2× Brilliant QPCR Master Mix The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
 Reference dye, 1mM The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : 2× Brilliant QPCR Master Not classified.
 Mix
 Reference dye, 1mM Not classified.

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

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

Date of issue/Date of revision : 29/05/2011

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms :



Signal word : 2× Brilliant QPCR Master Mix Warning

Reference dye, 1mM No signal word.

Hazard statements : 2× Brilliant QPCR Master Mix **GHS08** - May cause damage to organs through prolonged or repeated exposure if inhaled. (kidneys)

Reference dye, 1mM No known significant effects or critical hazards.

Precautionary statements

Prevention : 2× Brilliant QPCR Master Mix Do not breathe vapour.

Reference dye, 1mM Not applicable.

Response : 2× Brilliant QPCR Master Mix Get medical attention if you feel unwell.

Reference dye, 1mM Not applicable.

Storage : 2× Brilliant QPCR Master Mix Not applicable.

Reference dye, 1mM Not applicable.

Disposal : 2× Brilliant QPCR Master Mix Not applicable.

Reference dye, 1mM Not applicable.

Hazardous ingredients : **2× Brilliant QPCR Master Mix**
Glycerol

Supplemental label elements : 2× Brilliant QPCR Master Mix Not applicable.

Reference dye, 1mM Not applicable.

Special packaging requirements

Tactile warning of danger : 2× Brilliant QPCR Master Mix Not applicable.

Reference dye, 1mM Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : 2× Brilliant QPCR Master Mix Not available.

Reference dye, 1mM Not available.

SECTION 3: Composition/information on ingredients

Substance/mixture : 2× Brilliant QPCR Master Mix Mixture

Reference dye, 1mM Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
2× Brilliant QPCR Master Mix Glycerol	EC: 200-289-5 CAS: 56-81-5	20-25	Not classified. See section 16 for the full text of the R-phrases declared above	STOT RE 2, H373i See Section 16 for the full text of the H statements declared above.	[1] [2]

Date of issue/Date of revision : 29/05/2011

SECTION 3: Composition/information on ingredients

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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

SECTION 4: First aid measures**4.1 Description of first aid measures**

Eye contact	: 2× Brilliant QPCR Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
	Reference dye, 1mM	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	: 2× Brilliant QPCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Reference dye, 1mM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: 2× Brilliant QPCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Reference dye, 1mM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 2× Brilliant QPCR Master Mix	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Reference dye, 1mM	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.

SECTION 4: First aid measures

Protection of first-aiders	: 2× Brilliant QPCR Master Mix	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Reference dye, 1mM	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: 2× Brilliant QPCR Master Mix	No known significant effects or critical hazards.
	Reference dye, 1mM	No known significant effects or critical hazards.
Inhalation	: 2× Brilliant QPCR Master Mix	No known significant effects or critical hazards.
	Reference dye, 1mM	No known significant effects or critical hazards.
Skin contact	: 2× Brilliant QPCR Master Mix	No known significant effects or critical hazards.
	Reference dye, 1mM	No known significant effects or critical hazards.
Ingestion	: 2× Brilliant QPCR Master Mix	No known significant effects or critical hazards.
	Reference dye, 1mM	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: 2× Brilliant QPCR Master Mix	No specific data.
	Reference dye, 1mM	No specific data.
Inhalation	: 2× Brilliant QPCR Master Mix	No specific data.
	Reference dye, 1mM	No specific data.
Skin contact	: 2× Brilliant QPCR Master Mix	No specific data.
	Reference dye, 1mM	No specific data.
Ingestion	: 2× Brilliant QPCR Master Mix	No specific data.
	Reference dye, 1mM	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: 2× Brilliant QPCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Reference dye, 1mM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: 2× Brilliant QPCR Master Mix	No specific treatment.
	Reference dye, 1mM	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 2× Brilliant QPCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	Reference dye, 1mM	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 2× Brilliant QPCR Master Mix	None known.
	Reference dye, 1mM	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: 2× Brilliant QPCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Reference dye, 1mM	In a fire or if heated, a pressure increase will occur and the container may burst.

SECTION 5: Firefighting measures

Hazardous combustion products	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Decomposition products may include the following materials: carbon dioxide carbon monoxide No specific data.
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5.3 Advice for firefighters

Special precautions for fire-fighters	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	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	: 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	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	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".

6.2 Environmental precautions

: 2× Brilliant QPCR Master Mix Reference dye, 1mM	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).
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	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
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SECTION 6: Accidental release measures

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** : 2× Brilliant QPCR Master Mix Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Reference dye, 1mM Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : 2× Brilliant QPCR 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.
- Reference dye, 1mM 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.

- 7.2 Conditions for safe storage, including any incompatibilities** : 2× Brilliant QPCR 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.
- Reference dye, 1mM 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.

7.3 Specific end use(s)

- Recommendations** : 2× Brilliant QPCR Master Mix Industrial applications, Professional applications.
- Reference dye, 1mM Industrial applications, Professional applications.

- Industrial sector specific solutions** : Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2x Brilliant QPCR Master Mix Glycerol	ACGIH TLV (United States, 2/2010). TWA: 10 mg/m ³ 8 hour(s). Form: Inhalable fraction

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels

No DNELs available.

Predicted effect concentrations

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

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 : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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**9.1 Information on basic physical and chemical properties****Appearance**

Physical state	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Liquid. Liquid.
Colour	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Odour	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Odour threshold	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
pH	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	8 8
Melting point/freezing point	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. 0°C
Initial boiling point and boiling range	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. 100°C
Flash point	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	[Product does not sustain combustion.] Not available.
Evaporation rate	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Flammability (solid, gas)	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Upper/lower flammability or explosive limits	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Vapour pressure	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Vapour density	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Relative density	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Solubility(ies)	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Auto-ignition temperature	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Decomposition temperature	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.

SECTION 9: Physical and chemical properties

Viscosity	: 2× Brilliant QPCR Master Mix	Not available.
	Reference dye, 1mM	Not available.
Explosive properties	: 2× Brilliant QPCR Master Mix	Not available.
	Reference dye, 1mM	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: 2× Brilliant QPCR Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	Reference dye, 1mM	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: 2× Brilliant QPCR Master Mix	The product is stable.
	Reference dye, 1mM	The product is stable.
10.3 Possibility of hazardous reactions	: 2× Brilliant QPCR Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Reference dye, 1mM	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 2× Brilliant QPCR Master Mix	No specific data.
	Reference dye, 1mM	No specific data.
10.5 Incompatible materials	: 2× Brilliant QPCR Master Mix	No specific data.
	Reference dye, 1mM	No specific data.
10.6 Hazardous decomposition products	: 2× Brilliant QPCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Reference dye, 1mM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2× Brilliant QPCR Master Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2× Brilliant QPCR Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

SECTION 11: Toxicological information

Sensitiser

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2× Brilliant QPCR Master Mix Glycerol	Category 2	Inhalation	kidneys

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Inhalation	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No specific data. No specific data.
Ingestion	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No specific data. No specific data.
Skin contact	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No specific data. No specific data.
Eye contact	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No specific data. No specific data.

Delayed and immediate effects and also 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.

SECTION 11: Toxicological information

Potential chronic health effects

General	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	May cause damage to organs through prolonged or repeated exposure if inhaled. No known significant effects or critical hazards.
Carcinogenicity	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	No known significant effects or critical hazards. No known significant effects or critical hazards.

Toxicokinetics

Absorption	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Distribution	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Metabolism	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Elimination	: 2× Brilliant QPCR Master Mix Reference dye, 1mM	Not available. Not available.
Other information	: Not available.	

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2× Brilliant QPCR Master Mix Glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2× Brilliant QPCR Master Mix Glycerol	-1.76	-	low

12.4 Mobility in soil

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

Date of issue/Date of revision : 29/05/2011

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

- PBT** : Not applicable.
vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory information

ADR/RID / IMDG / IATA : Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

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 : Not applicable.

Other EU regulations

- Europe inventory** : At least one component is not listed.
Black List Chemicals : Not listed
Priority List Chemicals : Not listed

SECTION 15: Regulatory information

Integrated pollution prevention and control list (IPPC) - Air : Not listed

Integrated pollution prevention and control list (IPPC) - Water : Not listed

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

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

Classification	Justification
2× Brilliant QPCR Master Mix STOT RE 2, H373i	Calculation method

Full text of abbreviated H statements : **2× Brilliant QPCR Master Mix**
 H373i
 May cause damage to organs through prolonged or repeated exposure if inhaled.

Full text of classifications [CLP/GHS] : **2× Brilliant QPCR Master Mix**
 STOT RE 2, H373i
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): INHALATION [kidneys] - Category 2

Full text of abbreviated R phrases : 2× Brilliant QPCR Master Mix
 Reference dye, 1mM
 Not applicable.

Full text of classifications [DSD/DPD] : 2× Brilliant QPCR Master Mix
 Reference dye, 1mM
 Not applicable.

Date of issue/ Date of revision : 29/05/2011

Date of previous issue : No previous validation.

Version : 2

Notice to reader

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