Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

## **SAFETY DATA SHEET**

Agilent Technologies

Brilliant III Ultra-Fast QPCR Master Mix with High ROX, Part Number 600888

### Section 1. Identification

Product identifier Part no.		Brilliant III Ultra 600888	n-Fast QPCR Master Mix with High ROX, Part Numb	er 600888
Relevant identified uses of th	e s	substance or m	<u>iixture and uses advised against</u>	
Identified uses	÷	Analytical reage	ent.	
		2 x 2 ml	2X Brilliant III QPCR Master Mix/ High ROX	600888-51
Supplier/Manufacturer	:	Agilent Techno 679 Springvale Mulgrave Victoria 3170, A 1800 802 402		
Emergency telephone number (with hours of operation)	:	CHEMTREC®:	+(61)-290372994	

### Section 2. Hazard(s) identification

Classification of the substance or mixture▶320▶320SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

GHS label elements		
Signal word	1	WARNING
Hazard statements	:	₩320 - Causes eye irritation.
Precautionary statements		
Prevention	:	Not applicable.
Response	:	<ul> <li>₱305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	1	Not applicable.
Disposal	:	Not applicable.
Supplemental label element	S	
Additional warning phrases	:	Not applicable.

Other hazards which do not : None known. result in classification

### Section 3. Composition and ingredient information

Substance/mixture

: Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Øycerol	≥10 - ≤30	56-81-5

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

Date of issue/Date of revision	: 25/04/2024	Date of previous issue	: 28/04/2021	Version : 6	1/9
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### Section 3. Composition and ingredient information

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	: 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. If irritation persists, get medical attention.
Inhalation	: 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 if adverse health effects persist or are severe. 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.
Skin contact	: Fush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. 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 if adverse health effects persist or are severe. 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.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects					
Eye contact	: 🗭 auses eye irritation.				
Inhalation	: No known significant effects or critical hazards.				
Skin contact	: No known significant effects or critical hazards.				
Ingestion	: No known significant effects or critical hazards.				
Over-exposure signs/	/symptoms				
Eye contact	: Adverse symptoms may include the following: irritation watering redness				
Inhalation	: No specific data.				
Skin contact	: No specific data.				
Ingestion	: No specific data.				

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: 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.

#### See toxicological information (Section 11)

### Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: 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.

### Section 6. Accidental release measures

Personal precautions, protect	<u>tiv</u>	e equipment and emergency procedures
For non-emergency personnel	:	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.
For emergency responders	:	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	:	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 con	ita	inment and cleaning up

Methods for cleaning up : 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	L	
Protective measures		Vut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.
Advice on general occupational hygiene		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

**Control parameters** 

Conditions for safe storage,	: Store in accordance with local regulations. Store in original container protected
including any	from direct sunlight in a dry, cool and well-ventilated area, away from incompatible
incompatibilities	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

Ingredient name		Exposure limits	
Ølycerol		<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.	
Biological exposure indices			
No exposure indices known.			
Appropriate engineering controls	: Good general ventilation should be contaminants.	sufficient to control worker exposure to airborne	
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 measure	<u>s</u>		
Hygiene measures	eating, smoking and using the lavat Appropriate techniques should be u	broughly after handling chemical products, before tory and at the end of the working period. Ised to remove potentially contaminated clothing. Preusing. Ensure that eyewash stations and kstation 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: chemical splash goggles.		
Skin protection			
Hand protection	be worn at all times when handling this is necessary. Considering the check during use that the gloves an should be noted that the time to bre different for different glove manufac	ves complying with an approved standard should chemical products if a risk assessment indicates parameters specified by the glove manufacturer, e still retaining their protective properties. It eakthrough for any glove material may be cturers. In the case of mixtures, consisting of time of the gloves cannot be accurately	
Body protection		he body should be selected based on the task ved and should be approved by a specialist	
Other skin protection		ional skin protection measures should be erformed and the risks involved and should be idling 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.		

4/9

# Section 9. Physical and chemical properties and safety characteristics

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

Appearance										
Physical state	:	Liquid.								
Colour	:	Not available.								
Odour	1	Not available.								
Odour threshold	1	Not available.								
рН	1	7.8								
Melting point/freezing point	:	Not available.								
Boiling point, initial boiling point, and boiling range	:	Not available.								
Flash point	4			Closed	cup			Open o	cup	
		Ingredient name	°C	°F	Me	ethod	°C	°F	Method	
		Slycerol	-	-	-		177	350.6	-	
Evaporation rate	:	Not available.	<u> </u>	ļ			1	I	I	
Flammability	:	Not applicable.								
Lower and upper explosion limit/flammability limit	:	Not available.								
Vapour pressure	1		Vapou	ır Pressu	ire a	at 20°C	Vap	our press	our pressure at 50°C	
		Ingredient name	mm Hg	kPa	Me	ethod	mm Hg	kPa	Method	
		water	17.5	2.3	-		92.258	3 12.3	-	
		Glycerol	0.000075	0.00001	-		0.0025	5 0.00033	-	
Relative vapour density	:	Not available.			!				11	
Relative density	:	Not available.								
Solubility(ies)	:	Media				Result				
		water			S	Soluble				
Miscible with water	:	Yes.								
Partition coefficient: n- octanol/water	:	Not applicable.								
Auto-ignition temperature	:	Ingredient name		°C		°F		Method		
		Ølycerol		370		698	-			
Decomposition temperature	:	Not available.		•						
Viscosity	:	Not available.								
Particle characteristics Median particle size	:	Not applicable.								

### Section 10. Stability and reactivity

Date of issue/Date of revision	: 25/04/2024	Date of previous issue	: 28/04/2021	Version : 6	5/9
Conditions to avoid	: No specif	ïc data.			
Possibility of hazardous reactions	: Under no	rmal conditions of storage a	and use, hazardous r	reactions will not occur.	
Chemical stability	: The prod	uct is stable.			
Reactivity	: No specif	ic test data related to react	ivity available for this	product or its ingredient	S.

### Section 10. Stability and reactivity

#### Incompatible materials

: May react or be incompatible with oxidising materials.

 Hazardous decomposition
 : Under normal conditions of storage and use, hazardous decomposition products

 products
 : Should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Irritation/Corrosion			•	<u> </u>

Product/ingredient name	Result	Species	Score	Exposure	Observation
Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	24 hours 500 mg 24 hours 500 mg	

**Sensitisation** 

Not available.

Mutagenicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: Not available.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: Not available.
Specific target organ tox	<u>icity (single exposure)</u>

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure	: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Potential acute health effects	
Eye contact	: 🖉auses eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	sical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: No specific data.

Date of issue/Date	of revision	: 25/
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### Section 11. Toxicological information

Skin contact	: No specific data.	
Ingestion	: No specific data.	

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

<u>Short term exposure</u>	
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 effe	ects
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

•	Oral (mg/ kg)	(mg/kg)		(vapours)	Inhalation (dusts and mists) (mg/l)
Glycerol	12600	N/A	N/A	N/A	N/A

### Section 12. Ecological information

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Product/ingredient name	Result	Species	Exposure
Siycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Glycerol	-1.76	-	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Date of issue/Date of revision	: 25/04/2024	Date of previous issue	: 28/04/2021	Version : 6	7/9
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### 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or
	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

ADG / IMDG / IATA	Not regulated as Dangerous Goods according to the ADG Code .
	not regulated as Ballgeroad Goode according to the ribe ocder

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 : Not available. to IMO instruments

Section 15. Regulatory information	
Standard for the Uniform Scheduling of Medicines and Poisons	

Not regulated.

#### 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 New Zealand United States**
- : Not determined.
- : Not determined.
- : Not determined.

8/9

### Section 16. Any other relevant information

<u>History</u>	
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Date of previous issue	: 28/04/2021
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Key to abbreviations	<ul> <li>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 = Internediate 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</li> </ul>
Procedure used to derive t	he classification

Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

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9/9