SAFETY DATA SHEET



1/11

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

SECTION 1: Identification of the substance/mixture and of the company/ undertaking		
1.1 Product identifier		
Product name	: Brilliant III Ultra-Fast QPCR Master Mix with High ROX, Part Nu	mber 600888
Part no.	: 600888	
1.2 Relevant identified us	es of the substance or mixture and uses advised against	
Identified uses	 Analytical reagent. 2 x 2 ml 2X Brilliant III QPCR Master Mix/ High ROX 	600888-51
Uses advised against	: None known.	
1.3 Details of the supplier	of the safety data sheet	
Agilent Technologies LDA 5500 Lakeside Cheadle R Cheadle, Cheshire, SK8 3 United Kingdom Tel: +44 (0) 345 712 5292	oyal Business Park, GR	
e-mail address of persor responsible for this SDS		
1.4 Emergency telephone	number	
Emergency telephone number (with hours of	: CHEMTREC®: +(44)-870-8200418	

SECTION 2: Hazards identification

operation)

2.1 Classification of the	substance or mixture
Product definition	: Mixture
Classification accordin	ng to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.	

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word	÷	No signal word.
Hazard statements	÷	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	÷	Not applicable.
Storage	:	Not applicable.
Disposal	1	Not applicable.
Supplemental label elements	:	Safety data sheet available on request.

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SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging require	ements
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: ₱his mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

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Product/ingredient name	Identifiers	%	Classification	Туре
Siycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

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🕅 Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: 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	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Fush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Mash 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.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

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SECTION 4: First aid measures

	u measures
4.2 Most important sympto	ms and effects, both acute and delayed
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: No specific data.
Inhalation	: 📈 specific data.
Skin contact	: 🕅 specific data.
Ingestion	: No specific data.
4.3 Indication of any immed	liate medical attention and special treatment needed
Notes to physician	 Freat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	nting measures
5.1 Extinguishing media	
Suitable extinguishing media	: $ earrowseleft$ se an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: \mathbf{k} a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion	: Decomposition products may include the following materials:
products	carbon dioxide
	carbon monoxide halogenated compounds
	metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	Fromptly 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: Accide	ntal release measures
6.1 Personal precautions, p	protective equipment and emergency procedures
For non-emergency	: No action shall be taken involving any personal risk or without suitable training.

personnel	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	: Fspecialised 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	Kvoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

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.
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	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Fating, 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

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: Industrial applications, Professional applications.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Slycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Sood general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

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SECTION 8: Exposure controls/personal protection

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.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

gfycerol Ingredien gfycerol Ingredien gfycerol Not availab 7.8			- °C 370	177 Method	1
Ingredien glycerol Not availab			-		-
Ingredien	it name	-	-		- 1
	it name	-	- °C		- 1
glycerol		-	-	177	-
Ingredien	it name	°C	Method	°C	Method
			Closed cup		Open cup
INOT AVAILAD	JIE.				
Liquid.					
	Not availat Not availat Not availat Not availat Not availat Not applica Not availat	 Not available. Not available. Not available. Not available. Not available. Not available. Not applicable. Not available. 	 Not available. Ingredient name °C 	 Not available. Not available. Not available. Not available. Not available. Not available. Not applicable. Not available. Closed cup °C Method 	 Not available. Closed cup C Method °C

SECTION 9: Physical and chemical properties

Viscosity	: Not available.	: Not available.							
Solubility(ies)	: Media			Result	Result				
	water			Soluble					
Miscible with water	: 🕅 es.								
Partition coefficient: n- octanol/water	: Not applicable.								
Vapour pressure	:	Vapour	Pressur	e at 20°C	Vapour pressure at 50°C				
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
	water	17.5	2.3	-	92.258	12.3	-		
	glycerol	0.000075	0.00001	-	0.0025	0.00033	-		
Evaporation rate	: Not available.			•					
Relative density	: Not available.								
Vapour density	: Not available.								
Explosive properties	: Not available.								
Oxidising properties	: Not available.								
Particle characteristics									
Median particle size	: Not applicable.								

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Vinder normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: Inder 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
Ølycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists (mg/l)
Ølycerol	12600	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ølycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-
Conclusion/Summary :	Not available.				
<u>Sensitiser</u>					
Conclusion/Summary :	Not available.				
Mutagenicity					
Conclusion/Summary :	Not available.				
<u>Carcinogenicity</u>					
· · · · · · · · · · · · · · · · · · ·	Not available.				
Reproductive toxicity					
	Not available.				
<u>Teratogenicity</u>					
· · · · · · · · · · · · · · · · · · ·	Not available.				
Specific target organ toxicity	<u>/ (single exposure)</u>				
Not available.					
Specific target organ toxicity	<u>/ (repeated exposure)</u>				
Not available.					
Aspiration hazard					
Not available.					
Information on likely : routes of exposure	Routes of entry anticipated: Ora	l, Dermal, Inhal	ation, Eye	es.	
Potential acute health effects	<u>S</u>				
	No known significant effects or o	critical hazards.			
Ingestion :	No known significant effects or o	critical hazards.			
Skin contact :	No known significant effects or o	critical hazards.			
Eye contact :	No known significant effects or o	critical hazards.			
Symptoms related to the phy	vsical, chemical and toxicologic	cal characteris	<u>tics</u>		
Inhalation :	No specific data.				
Ingestion :	No specific data.				
Skin contact :	No specific data.				
Eye contact :	No specific data.				
Delayed and immediate effect	cts as well as chronic effects fr	om short and	ong-tern	<u>n exposure</u>	
Short term exposure					
Potential immediate : effects	Not available.				
Potential delayed : effects	Not available.				
Long term exposure					

SECTION 11: Toxicological information

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
Conclusion/Summary	: Not available.
General	: 📈 known significant effects or critical hazards.
Carcinogenicity	: 📈 known significant effects or critical hazards.
Mutagenicity	: 📈 known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
SECTION 42. Easle	ainal information

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Øycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
Conclusion/Summary	Not available.		

Conclusion/Summary

12.2 Persistence and degradability

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

Conclusion/Summary Not available.

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the
	requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products
	via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

SECTION 13: Disposal considerations

Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

: Not available.

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants Not listed.

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

SECTION 15: Regulatory information

Annex XVII - Restrictions mixtures and articles	on the manufacture, placing on the market and use of certain dangerous substances,
No listed substance	
Label	: Not applicable.
Seveso Directive	
This product is not controlle	ed under the Seveso Directive.
EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments might still be required.
International regulations	
Chemical Weapon Conve	ntion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol Not listed.	
Stockholm Convention or Not listed.	<u>n Persistent Organic Pollutants</u>
Rotterdam Convention or	n Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol o	on POPs and Heavy Metals
Not listed.	
Inventory list	
United States	: Not determined.
SECTION 16: Other	information
Indicates information that	t has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement

- N/A = Not available PBT = Persistent, Bioaccumulative and Toxic
 - PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
 - vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

	Classification	Justification
Not classi	ified.	

Full text of abbreviated H statements

Not applicable.

SECTION 16: Other information

Full text of classifications		
Not applicable.		
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Notice to reader		

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