# SAFETY DATA SHEET



Brilliant III Ultra Fast SYBR Green QPCR Master Mix with Low Rox, Part Number 600892

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

1.1 Product identifier	
Product name	<ul> <li>Brilliant III Ultra Fast SYBR Green QPCR Master Mix with Low Rox, Part Number 600892</li> </ul>
Part no.	: 600892
1.2 Relevant identified	uses of the substance or mixture and uses advised against
Identified uses	<ul> <li>Analytical reagent.</li> <li>2 x 2 ml</li> <li>2X Brilliant III SYBR® Green QPCR Master Mix/Low ROX</li> </ul>

#### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutse Hewlett-Packard-Str. 8 76337 Waldbronn	chland GmbH
Germany 0800 603 1000	
e-mail address of person responsible for this SDS	: pdl-msds_author@agilent.com

600892-51

: None known.

#### 1.4 Emergency telephone number

**Uses advised against** 

Emergency telephone : CHEMTREC®: +(44)-870-8200418 number (with hours of operation)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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	:	Not applicable.

## **SECTION 2: Hazards identification**

Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging require	ments
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	: This 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.
<b>SECTION 3: Compo</b>	sition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
glycerol	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. <u>Type</u>

[1] 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	1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	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.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

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SECTION 4: First ai	
	ms and effects, both acute and delayed
Potential acute health effe	<u>ets</u>
Eye contact	: No known significant effects or critical hazards.
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/sym	ptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of any immed	diate medical attention and special treatment needed
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.
<b>SECTION 5: Firefigl</b>	nting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use 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	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	<ul> <li>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.</li> </ul>
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	: 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	: 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".

### **SECTION 6: Accidental release measures**

6.2 Environmental	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and
precautions	sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	polition (sewers, waterways, son or an).
6.3 Methods and material fe	or containment 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.
6.4 Reference to other	: See Section 1 for emergency contact information.
sections	See Section 8 for information on appropriate personal protective equipment.
	See Section 13 for additional waste treatment information.
SECTION 7. Handlin	a and atoraga
SECTION 7: Handlin	iy anu storaye
7.1 Procautions for safe ha	ndling

#### cautions for safe nangling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
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.

#### 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from **Storage** 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
	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m <sup>3</sup> 8 hours. Form: mist

#### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination
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## **SECTION 8: Exposure controls/personal protection**

of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</u>
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	
Physical state	: Liquid.
Colour	: Not available.
Odour	: Not available.
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flammability	: Not applicable.

## **SECTION 9: Physical and chemical properties**

Upper/lower flammability or explosive limits	:	Not available.								
Flash point	:					Clos	ed cup		(	Open cup
		Ingredient name			°C		Method		°C	 Method
		dimethyl sulfoxide			87		ASTM D	93	87	-
		glycerol			_		_		177	_
Auto-ignition	:	Ingredient name				°C			Method	
temperature		dimethyl sulfoxide				300 to 302 -				
		glycerol				370	1	_		
Decomposition temperature	:									
рН	:	7.8								
Viscosity	1	Not available.								
Solubility(ies)	4	Media					Result			
		water				S	Soluble			
Miscible with water	:	Yes.				ł				
Partition coefficient: n- octanol/water	:	Not applicable.								
Vapour pressure	4		Vapou	r Pressui	re at 20	)°C		Vap	our pre	ssure at 50°C
		Ingredient name	mm Hg	kPa	Meth	nod	mn Hg	ו	kPa	Method
		water	17.5	2.3	-		92.2	58	12.3	-
		dimethyl sulfoxide	0.42	0.056	EU A	.4	-		-	-
Evaporation rate	1	Not available.	•							
Relative density	1	Not available.								
Vapour density	4	Not available.								
Explosive properties		Not available.								
Oxidising properties	4	Not available.								
Particle characteristics		<b>N I I I I I I I I I I</b>								
Median particle size	÷	Not applicable.								
9.2 Other information										
No additional information.										
SECTION 10: Stabil	ity	and reactivity								
10.1 Reactivity	1	No specific test data	related to	reactivity	availat	ole fo	or this pro	oduc	t or its in	ngredients.
10.2 Chemical stability	:	The product is stable								
10.3 Possibility of hazardous reactions	:	Under normal conditi	ons of sto	rage and	use, ha	azaro	lous read	ction	s will no	t occur.
10.4 Conditions to avoid	:	No specific data.								

**10.5 Incompatible** : May react or be incompatible with oxidising materials. **materials** 

## **SECTION 10: Stability and reactivity**

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

I1.1 Information on toxico <u>Acute toxicity</u>	logical effects	
Acute toxicity	5	
Not available.		
Acute toxicity estimates	<u>2</u>	
N/A		
Irritation/Corrosion		
Conclusion/Summary	: Not available.	
<u>Sensitiser</u>		
Conclusion/Summary	: Not available.	
<b>Mutagenicity</b>		
Conclusion/Summary	: Not available.	
Carcinogenicity		
Conclusion/Summary	: Not available.	
Reproductive toxicity		
Conclusion/Summary	: Not available.	
<u>Teratogenicity</u>		
Conclusion/Summary	: Not available.	
Specific target organ tox	<u>icity (single exposure)</u>	
Not available.		
Specific target organ tox	<u>icity (repeated exposure)</u>	
Not available.		
Aspiration hazard		
Not available.		
	. Deutee of entry entiriested, Orel, Demonal Jub station, Fue	
Information on likely routes of exposure	: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.	
Potential acute health eff	ierts	
Inhalation	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Eye contact	: No known significant effects or critical hazards.	
	physical, chemical and toxicological characteristics	
Inhalation	: No specific data.	
Ingestion	: No specific data.	
Skin contact	: No specific data.	
Eye contact	: No specific data.	
· · · · · · · · · · · · · · · · · · ·	effects as well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Date of issue/Date of revision	: 28/03/2024 Date of previous issue : No previous validation Version : 1	7/1

## **SECTION 11: Toxicological information**

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health	effects
<b>Conclusion/Summary</b>	: Not available.
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.

#### 11.2 Information on other hazards

#### **11.2.1 Endocrine disrupting properties**

Not available.

#### **11.2.2 Other information**

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

**Conclusion/Summary** : Not available.

#### 12.2 Persistence and degradability

Not available.

#### 12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: 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 Endocrine disrupting properties

Not available.

#### 12.7 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	<ul> <li>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.</li> </ul>
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 or ID 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

## uments

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

#### Label : Not applicable.

**Other EU regulations** 

## **SECTION 15: Regulatory information**

SECTION 15. Neg	
Industrial emissions (integrated pollution prevention and control - Air	: Listed
Ozone depleting subst	ances (1005/2009/EU)
Not listed.	
Prior Informed Consen	<u>it (PIC) (649/2012/EU)</u>
Not listed.	
Persistent Organic Pol Not listed.	<u>lutants</u>
<u>Seveso Directive</u> This product is not contro	olled under the Seveso Directive.
International regulations	
	zention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention	on Persistent Organic Pollutants
Not listed.	
Rotterdam Convention of	on Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protoco	I on POPs and Heavy Metals
Not listed.	
Inventory list	
Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: <b>Russian Federation inventory</b> : All components are listed or exempted.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.
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	<ul> <li>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</li> </ul>
	RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Not classified.	

#### Full text of abbreviated H statements

Not applicable.

#### Full text of classifications [CLP/GHS]

Not applicable.

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#### Notice to reader

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