SAFETY DATA SHEET

Agilent Technologies

Brilliant III Ultra-Fast QRT-PCR Master Mix, 10-pack, Part Number 600885

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

1.1 Product identifier			
Product name	:	Brilliant III Ultra-Fast QRT	-PCR Master Mix, 10-pack, Part Number 600885
Part no. (chemical kit)	:	600885	
Part no.	:	Brilliant III Ultra-Fast QRT-PCR Master Mix	<u>600884</u>
		2X Brilliant III QRT-PCR Master Mix	600884-51
		RT/RNase Block	600884-52
		Reference Dye	600530-53
		100 mM DTT	600089-53
1.2 Relevant identified us	es o	f the substance or mixtur	e and uses advised against
Material uses		Analytical reagent.	

es : Analytical reagent. 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT

10 x (2 x 2 ml) 10 x 0.4 ml 10 x (0.1 ml (100 µl 1 mM)) 0.1 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd. 5500 Lakeside Cheadle Royal Business Park, Cheadle, Cheshire, SK8 3GR United Kingdom Tel: +44 (0) 345 712 5292

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

1.4 Emergency telephone number

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** : 2X Brilliant III QRT-PCR Mixture Master Mix **RT/RNase Block** Mixture Reference Dye Mixture 100 mM DTT Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified. PY Brilliant III OBT-PCB Percentage of the mixture consisting of ingredient(s) of In

toxicity	Master Mix	unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
	RT/RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Reference Dye	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of

SECTION 2: Hazards identification

100 mM DTT	unknown acute inhalation toxicity: 1 - 10% 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: 1 - 10%

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	:	2X Brilliant III QRT-PCR	No signal word.
		Master Mix	Ne simulation
		RT/RNase Block	No signal word.
		Reference Dye	No signal word.
		100 mM DTT	No signal word.
Hazard statements	1	2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
		RT/RNase Block Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
		100 mM DTT	No known significant effects or critical hazards.
Precautionary statements			
Prevention	:	2X Brilliant III QRT-PCR Master Mix	Not applicable.
		RT/RNase Block	Not applicable.
		Reference Dye	Not applicable.
		100 mM DTT	Not applicable.
Response	:	2X Brilliant III QRT-PCR Master Mix	Not applicable.
		RT/RNase Block	Not applicable.
		Reference Dye	Not applicable.
		100 mM DTT	Not applicable.
Storage	;	2X Brilliant III QRT-PCR Master Mix	Not applicable.
		RT/RNase Block	Not applicable.
		Reference Dye	Not applicable.
		100 mM DTT	Not applicable.
Dianasal			
Disposal	•	2X Brilliant III QRT-PCR Master Mix	Not applicable.
		RT/RNase Block	Not applicable.
		Reference Dye	Not applicable.
		100 mM DTT	Not applicable.
Hazardous ingredients	:	100 mM DTT	Not applicable.
Supplemental label elements	1	X Brilliant III QRT-PCR Master Mix	Not applicable.
		RT/RNase Block	Not applicable.
		Reference Dye	Not applicable.
		100 mM DTT	Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture,	:	2X Brilliant III QRT-PCR Master Mix	Not applicable.
placing on the market		RT/RNase Block	Not applicable.
and use of certain		Reference Dye	Not applicable.
dangerous substances,		100 mM DTT	Not applicable.
mixtures and articles			••
Special packaging require	m	ents	
Special packaging require		01110	

SECTION 2: Hazards identification

Tactile warning of danger	:	2X Brilliant III QRT-PCR Master Mix	Not applicable.
•		RT/RNase Block	Not applicable.
		Reference Dye	Not applicable.
		100 mM DTT	Not applicable.
2.3 Other hazards			
Product meets the criteria for PBT or vPvB	:	2X Brilliant III QRT-PCR Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
according to Regulation (EC) No.		RT/RNase Block	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
1907/2006, Annex XIII		Reference Dye	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		100 mM DTT	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in	:	2X Brilliant III QRT-PCR Master Mix	None known.
classification		RT/RNase Block	None known.
		Reference Dye	None known.
		100 mM DTT	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	Mix RT/f Refe	Brilliant III QRT-PCR Master RNase Block erence Dye mM DTT	Mixture Mixture Mixture Mixture	
Product/ingredient nan	10	Identifiers	0/_	

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
2X Brilliant III QRT-PCR Master Mix				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
RT/RNase Block				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
100 mM DTT				
(R*,R*)-1,4-Dimercaptobutane- 2,3-diol	EC: 222-468-7 CAS: 3483-12-3	≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	[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, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>

SECTION 3: Composition/information on ingredients

[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

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1 Description of first a		
Eye contact	: 2X Brilliant III QRT-PCR Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	RT/RNase Block	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.
	Reference Dye	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.
	100 mM DTT	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: 2X Brilliant III QRT-PCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	RT/RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Reference Dye	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	100 mM DTT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: 2X Brilliant III QRT-PCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RT/RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	100 mM DTT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 🕅 Brilliant III QRT-PCR Master Mix	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.
	RT/RNase Block	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.
	Reference Dye	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

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

SECTION 4: First aid measures

	100 mM DTT	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: 2X Brilliant III QRT-PCR Master Mix RT/RNase Block	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.
	Reference Dye	No action shall be taken involving any personal risk or without suitable training.
	100 mM DTT	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

<u>Polential acute neatti en</u>		
Eye contact	: 2X Brilliant III QRT-PCR No known significant effects or cr Master Mix	itical hazards.
	RT/RNase Block No known significant effects or cr	itical hazards.
	Reference Dye No known significant effects or cr	
	100 mM DTT No known significant effects or cr	
Inhalation	: 2X Brilliant III QRT-PCR No known significant effects or cr	
	Master Mix	
	RT/RNase Block No known significant effects or cr	itical hazards.
	Reference Dye No known significant effects or cr	
	100 mM DTT No known significant effects or cr	
Skin contact	: 2X Brilliant III QRT-PCR No known significant effects or cr Master Mix	itical hazards.
	RT/RNase Block No known significant effects or cr	itical hazards.
	Reference Dye No known significant effects or cr	
	100 mM DTT No known significant effects or cr	
Ingestion	: 2X Brilliant III QRT-PCR No known significant effects or cr Master Mix	itical hazards.
	RT/RNase Block No known significant effects or cr	itical hazards.
	Reference Dye No known significant effects or cr	
	100 mM DTT No known significant effects or cr	itical hazards.
<u>Over-exposure signs/syr</u>	<u>ptoms</u>	
Eye contact	: 2X Brilliant III QRT-PCR No specific data. Master Mix	
	RT/RNase Block No specific data.	
	Reference Dye No specific data.	
	100 mM DTT No specific data.	
Inhalation	: 2X Brilliant III QRT-PCR No specific data. Master Mix	
	RT/RNase Block No specific data.	
	Reference Dye No specific data.	
	100 mM DTT No specific data.	
Skin contact	: 2X Brilliant III QRT-PCR No specific data. Master Mix	
	RT/RNase Block No specific data.	
	Reference Dye No specific data.	
	100 mM DTT No specific data.	
Ingestion	: 2X Brilliant III QRT-PCR No specific data. Master Mix	
	RT/RNase Block No specific data.	
	Reference Dye No specific data.	
	100 mM DTT No specific data.	

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

Notes to physician :	: 2X Brilliant III QRT-PCR Master Mix RT/RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
	Reference Dye	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	100 mM DTT	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
Specific treatments	: 2X Brilliant III QRT-PCR Master Mix	No specific treatment.
	RT/RNase Block	No specific treatment.
	Reference Dye	No specific treatment.
	100 mM DTT	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	: 2X Brilliant III QRT-PCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	RT/RNase Block Reference Dye 100 mM DTT	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 2X Brilliant III QRT-PCR Master Mix	None known.
	RT/RNase Block	None known.
	Reference Dye	None known.
	100 mM DTT	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: 2X Brilliant III QRT-PCR Master Mix RT/RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the
		container may burst.
	Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.
	100 mM DTT	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: 2X Brilliant III QRT-PCR Master Mix	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		halogenated compounds metal oxide/oxides
	RT/RNase Block	Decomposition products may include the following materials:
	ITT/ITTRASE DIOCK	carbon dioxide
		carbon monoxide
	Reference Dye	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		nitrogen oxides
		halogenated compounds metal oxide/oxides
	100 mM DTT	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		sulfur oxides

5.3 Advice for firefighters

SECTION 5: Firefig	hting measures	
Special precautions for fire-fighters	: 2X Brilliant III QRT-PCR Master Mix	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.
	RT/RNase Block	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.
	Reference Dye	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.
	100 mM DTT	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	: 2X Brilliant III QRT-PCR Master Mix	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.
	RT/RNase Block	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.
	Reference Dye	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.
	100 mM DTT	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	: 2X Brilliant III QRT-PCR Master Mix	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.	
	RT/RNase Block	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.	
	Reference Dye	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.	
	100 mM DTT	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.	

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For emergency	: 2X Brilliant III QRT-PCR	If specialised clothing is required to deal with the spillage,
responders	Master Mix	take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-
	RT/RNase Block	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"
	Reference Dye	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"
	100 mM DTT	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	: 2X Brilliant III QRT-PCR Master Mix	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 pollutior (sewers, waterways, soil or air).
	RT/RNase Block	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 pollutior (sewers, waterways, soil or air).
	Reference Dye	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 pollutior (sewers, waterways, soil or air).
	100 mM DTT	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 pollutior (sewers, waterways, soil or air).
6.3 Methods and material for	or containment and cleaning	g up
	: 2X Brilliant III QRT-PCR Master Mix	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
	RT/RNase Block	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
	Reference Dye	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	100 mM DTT	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		ncy contact information. tion on appropriate personal protective equipment. nal waste treatment information.

SECTION 7: Handling and storage

	-	
7.1 Precautions for safe h	andling	
Protective measures	: 2X Brilliant III QRT-PCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
	RT/RNase Block	Put on appropriate personal protective equipment (see Section 8).
	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
	100 mM DTT	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 2X Brilliant III QRT-PCR 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.
	RT/RNase Block	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	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.
	100 mM DTT	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

Storage	2X Brilliant III QRT-PCR Master Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	RT/RNase Block	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.
	Reference Dye	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

SECTION 7: Handling and storage	
	appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
100 mM DTT	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	: 2X Brilliant III QRT-PCR Master Mix	Industrial applications, Professional applications.
	RT/RNase Block	Industrial applications, Professional applications.
	Reference Dye 100 mM DTT	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: 🕅 Brilliant III QRT-PCR Master Mix	Not available.
	RT/RNase Block	Not available.
	Reference Dye	Not available.
	100 mM DTT	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name X Brilliant III QRT-PCR Master Mix Glycerol RT/RNase Block Glycerol		Exposure limit values EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist				
				Recommended monitoring procedures		

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

SECTION 8: Exposure controls/personal protection

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

<u>Appearance</u>			
Physical state	:	2X Brilliant III QRT-PCR Master Mix	Liquid.
		RT/RNase Block	Liquid.
		Reference Dye	Liquid.
		100 mM DTT	Liquid.
Colour	÷	2X Brilliant III QRT-PCR Master Mix	Not available.
		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	Not available.
Odour	÷	2X Brilliant III QRT-PCR Master Mix	Not available.
		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	Not available.
Odour threshold	1	2X Brilliant III QRT-PCR Master Mix	Not available.
		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	Not available.

SECTION 9: Physical and chemical properties

Melting point/freezing point	:	2X Brilliant III QRT-PCR Master Mix	Not available.
-		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	0°C
Initial boiling point and boiling range	÷	2X Brilliant III QRT-PCR Master Mix	Not available.
0		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	100°C (212°F)
Flammability (solid, gas)	÷	2X Brilliant III QRT-PCR Master Mix	Not applicable.
		RT/RNase Block	Not applicable.
		Reference Dye	Not applicable.
		100 mM DTT	Not applicable.
Upper/lower flammability	1	2X Brilliant III QRT-PCR	Not available.
or explosive limits		Master Mix	
-		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	Not available.
Elech neint			

Flash point

Auto-ignition temperature

Decomposition temperature

	Closed cu		cup			Open			
Ingredient name	°C	¢	°F	Met	nod	°C		°F	Method
X Brilliant III QRT-PCR Master Mix									
Edetic acid	>100	>	212	DIN 51	758				
Polyoxyethylene octyl phenyl ether	>109.85	>	229.7						
RT/RNase Block									
Edetic acid	>100	>	212	DIN 51	758				
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	>109.85	>	229.7						
100 mM DTT									
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>	·230						
Ingredient name			°C		°F			Methoo	k
2X Brilliant III QRT-PCR I	Master Mix								
Polyethylene glycol			360		680				
Glycerol			370		698				
RT/RNase Block									
Glycerol			370		698				
Edetic acid			>400		>752		VDI	2263	
2X Brilliant III QRT-PO	CR No	t a	vailable	ə.					
Master Mix RT/RNase Block	No	t a'	vailable	2					
Reference Dye			vailable						

Not available.

100 mM DTT

SECTION 9: Physical and chemical properties

SECTION 9. FILYSIC		•	•	11169					
рН	: 2X Brilliant Master Mix			8					
		RT/RNase Block Reference Dye		8					
	100 mM D		•	8 Not available.					
Viscosity		2X Brilliant III QRT-PCR		ot available.					
,	Master Mix RT/RNase	[N	ot available.					
	Reference 100 mM D			ot available. ot available.					
Solubility(ies)	2X Brilliant	I	W	ater.	in the followi	-			
	RT/RNase	BIOCK		asily soluble ater.	in the followi	ng materia	IS: COID W	ater and not	
	Reference	Dye		asily soluble ater.	in the followi	ng materia	ls: cold w	ater and hot	
	100 mM D	TT	E		in the followi	ng materia	ls: cold w	ater and hot	
Partition coefficient: n- octanol/water	: 🛛 Brilliant Master Mix	III QRT-PC	R N	ot applicable	Э.				
	RT/RNase Reference	Dye	N	ot applicable ot applicable	э.				
Vanour prossuro	100 mM D	11		ot applicable					
Vapour pressure	:	-	Vapo	ur Pressure		Vap	our press	sure at 50°C	
	Ingredien	t name	mm Hợ	g kPa	Method	mm Hg	kPa	Method	
	2X Brilliant Master Mix	III QRT-PCR							
	water		23.8	3.2		92.258	12.3		
	Sorbitan more ethoxylated	nolaurate,	<1	<0.13					
	RT/RNase E	lock							
	water		23.8	3.2		92.258	12.3		
	Glycerol		0.00007	5 0.00001		0.0025	0.00033		
	Reference I)ye							
	water		23.8	3.2		92.258	12.3		
	2-Amino-2- (hydroxymeti 1,3-diol hydr	nyl)propane-	0.00002	7 0.0000036		0.000007501	0.000001		
	100 mM DT	г							
	water		23.8	3.2		92.258	12.3		
Evaporation rate	: 2X Brilliant Master Mix		R N	ot available.					
	RT/RNase Reference 100 mM D	Dye	N	ot available. ot available. ot available.					
Relative density	: 2X Brilliant Master Mix		R N	ot available.					
	RT/RNase Reference 100 mM D	Dye	N	ot available. ot available. ot available.					

SECTION 9: Physical and chemical properties

-		-	-
Vapour density	1	2X Brilliant III QRT-PCR Master Mix	Not available.
		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	Not available.
Explosive properties	1	2X Brilliant III QRT-PCR Master Mix	Not available.
		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	Not available.
Oxidising properties	:	2X Brilliant III QRT-PCR Master Mix	Not available.
		RT/RNase Block	Not available.
		Reference Dye	Not available.
		100 mM DTT	Not available.
Particle characteristics			
Median particle size	:	X Brilliant III QRT-PCR Master Mix	Not applicable.
		RT/RNase Block Reference Dye 100 mM DTT	Not applicable. Not applicable. Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity					
10.1 Reactivity	 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. 				
	100 mM DTT No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: 2X Brilliant III QRT-PCR The product is stable. Master Mix RT/RNase Block The product is stable.				
	Reference DyeThe product is stable.100 mM DTTThe product is stable.				
10.3 Possibility of hazardous reactions	: 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.				
	Reference DyeUnder normal conditions of storage and use, hazardous reactions will not occur.100 mM DTTUnder normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	: 2X Brilliant III QRT-PCR No specific data. Master Mix				
	RT/RNase BlockNo specific data.Reference DyeNo specific data.100 mM DTTNo specific data.				

SECTION 10: Stability and reactivity

10.5 Incompatible materials	: 2X Brilliant III QRT-PCR Master Mix	May react or be incompatible with oxidising materials.
	RT/RNase Block	May react or be incompatible with oxidising materials.
	Reference Dye	May react or be incompatible with oxidising materials.
	100 mM DTT	May react or be incompatible with oxidising materials.
10.6 Hazardous	: 2X Brilliant III QRT-PCR	Under normal conditions of storage and use, hazardous
decomposition products	Master Mix	decomposition products should not be produced.
	RT/RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Reference Dye	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	100 mM DTT	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

Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
100 mM DTT 100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	33333.3 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A
rritation/Corrosion Conclusion/Summary : Not available. Sensitiser	i				

<u>oononioon</u>	
Conclusion/Summary	: Not available.
<u>Mutagenicity</u>	

Conclusion/Summary	: Not available.
Carcinogenicity	

Conclusion/Summary	1	Not available.
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Reproductive toxicity	
Conclusion/Summary	: Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

SECTION 11: Toxicological information

Information on likely	: 2X Brilliant III QRT-PCR	Routes of entry anticipated: Oral, Dermal, Inhalation.
routes of exposure	Master Mix	Routes of entry antioipated. Oral, Definal, Inhalation.
	RT/RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Reference Dye	Not available.
	100 mM DTT	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health e	ffects	
Inhalation	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye 100 mM DTT	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: 2X Brilliant III QRT-PCR	No known significant effects or critical hazards.
	Master Mix RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTŤ	No known significant effects or critical hazards.
Skin contact	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
Eye contact	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
Symptoms related to the	e physical, chemical and toxi	-
Inhalation	: 2X Brilliant III QRT-PCR	No specific data.
	Master Mix	1
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
la se sti se s		No specific data.
Ingestion	: 2X Brilliant III QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	RT/RNase Block Reference Dye 100 mM DTT	No specific data.
Skin contact	Reference Dye 100 mM DTT : 2X Brilliant III QRT-PCR	•
Skin contact	Reference Dye 100 mM DTT	No specific data. No specific data.
Skin contact	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye	No specific data. No specific data. No specific data. No specific data. No specific data.
Skin contact	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block	No specific data. No specific data. No specific data. No specific data.
Skin contact Eye contact	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye	No specific data. No specific data.
Eye contact	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	No specific data. No specific data.
Eye contact Delayed and immediate	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	No specific data. No specific data.
Eye contact Delayed and immediate Short term exposure Potential immediate	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	No specific data. No specific data.
Eye contact <u>Delayed and immediate</u> <u>Short term exposure</u> Potential immediate effects Potential delayed	Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT effects as well as chronic eff	No specific data. No specific data.
Eye contact Delayed and immediate Short term exposure Potential immediate effects	Reference Dye 100 mM DTT : 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT : 2X Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT effects as well as chronic eff : Not available.	No specific data. No specific data.

Potential immediate : Not available. effects

Potential delayed : Not available. effects

Date of issue/Date of revision

SECTION 11: Toxicological information

Detential abrenia bealth a		
Potential chronic health e	errects	
General	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
Carcinogenicity	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTŤ	No known significant effects or critical hazards.
Mutagenicity	: 2X Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
Reproductive toxicity	: 🕅 Brilliant III QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
Other information	: 🕅 Brilliant III QRT-PCR Master Mix	Not available.
	RT/RNase Block	Not available.
	Reference Dye	Not available.
	100 mM DTT	Adverse symptoms may include the following: May cause
		sensitisation by skin contact.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
100 mM DTT (R*,R*) -1,4-Dimercaptobutane- 2,3-diol	Acute LC50 27000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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 met	nods
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.
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
 : 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
 : Net available

- 14.7 Transport in bulk according to IMO instruments
- : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and enviro	onmental reg	gulations/legislation sp	pecific for the subst	ance or mixture
EU Regulation (EC) No. 1907	7/2006 (REA	<u>CH)</u>		
Annex XIV - List of substan	ices subject	to authorisation		
Annex XIV				
None of the components are	e listed.			
Substances of very high o	<u>concern</u>			
None of the components are	e listed.			
Annex XVII - Restrictions o substances, mixtures and a		facture, placing on the	market and use of	<u>certain dangerous</u>
Date of issue/Date of revision	: 27/05/2022	Date of previous issue	: 17/09/2019	Version : 4

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SECTION 15: Reg	ulatory information	
Label	: 2X Brilliant III QRT-PCR	Not applicable.
	Master Mix RT/RNase Block	Not applicable.
	Reference Dye	Not applicable.
	100 mM DTT	Not applicable.
Other EU regulations		
Ozone depleting subst	<u>ances (1005/2009/EU)</u>	
Not listed.		
Prior Informed Consen	<u>t (PIC) (649/2012/EU)</u>	
Not listed.		
Persistent Organic Pol	lutants	
Not listed.		
Seveso Directive		
	olled under the Seveso Directive.	
International regulations		
· · · · · · · · · · · · · · · · · · ·	vention List Schedules I, II & III (<u>Chemicals</u>
Not listed.		
Montreal Protocol		
Not listed.		
Stockholm Convention	on Persistent Organic Pollutant	<u>s</u>
Not listed.		
Rotterdam Convention	on Prior Informed Consent (PIC	
Not listed.		-
UNECE Aarbus Protoco	I on POPs and Heavy Metals	
Not listed.	ron ron or o und ricary metalo	
Inventory list	: Not determined.	
Australia Canada	: Not determined.	
China	: All components are listed or	avampted
Europe	: Not determined.	exempled.
Japan	: Japan inventory (CSCL): 1	Not determined
Japan	Japan inventory (ISHL): N	
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	: This product contains subst	ances for which Chemical Safety Assessments might still

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.1272/20091	
1070/00/01	
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 according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

100 mM DTT	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

100 mM DTT		
Acute Tox. 4		ACUTE TOXICITY - Category 4
Aquatic Chronic 3		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Irrit. 2		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
		Category 3
Date of issue/ Date of revision	: 27/05/2022	

TEVISION	
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