## **SAFETY DATA SHEET**



Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, Part Number 600886

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

1.1 Product identifier

Product name : Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, Part Number 600886

Part no. (chemical kit) : 600886

Part no. : 2X Brilliant III SYBR® 600886-51

Green QRT-PCR Master

Mix

RT/RNase Block 600886-52 Reference Dye 600530-53 100 mM DTT 600089-53

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

Material uses : Analytical reagent.

2X Brilliant III SYBR® Green QRT-PCR 2 x 2 ml

Master Mix

RT/RNase Block 0.4 ml

Reference Dye 0.1 ml (100 µl 1 mM)

100 mM DTT 0.1 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG Hewlett-Packard-Str. 8 76337 Waldbronn

Germany 0800 603 1000

e-mail address of person : pdl-msds auti

responsible for this SDS

: pdl-msds\_author@agilent.com

1.4 Emergency telephone number

Emergency telephone

number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : 2X Brilliant III SYBR® Mixture

Green QRT-PCR 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.

Ingredients of unknown

toxicity

: 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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%

RT/RNase Block Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

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## **SECTION 2: Hazards identification**

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

unknown acute inhalation toxicity: 1 - 10%

100 mM DTT 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 SYBR® No signal word.

Green QRT-PCR Master

RT/RNase Block No signal word. No signal word. Reference Dye 100 mM DTT No signal word.

**Hazard statements** 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

RT/RNase Block Reference Dye 100 mM DTT

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** : 2X Brilliant III SYBR® Not applicable.

Green QRT-PCR Master

Mix

RT/RNase Block Not applicable. Reference Dye Not applicable. 100 mM DTT Not applicable.

: 2X Brilliant III SYBR® Not applicable. Response Green QRT-PCR Master

Mix

RT/RNase Block Not applicable. Reference Dye Not applicable. 100 mM DTT Not applicable.

**Storage** 2X Brilliant III SYBR® Not applicable.

Green QRT-PCR Master

Mix

RT/RNase Block Not applicable. Reference Dye Not applicable. 100 mM DTT Not applicable. : 2X Brilliant III SYBR® Not applicable.

**Disposal** Green QRT-PCR Master

Mix

RT/RNase Block Not applicable. Reference Dye Not applicable. 100 mM DTT Not applicable. : 100 mM DTT Not applicable. Not applicable.

**Hazardous ingredients** 

Supplemental label

elements

: 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block Not applicable. Reference Dye Not applicable.

100 mM DTT Safety data sheet available on request.

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## **SECTION 2: Hazards identification**

Annex XVII - Restrictions : 2X Brilliant III SYBR® on the manufacture,

Green QRT-PCR Master

Not applicable.

placing on the market and use of certain dangerous substances,

RT/RNase Block Reference Dve 100 mM DTT

Not applicable. Not applicable. Not applicable.

Not applicable.

Special packaging requirements

Tactile warning of

mixtures and articles

danger

: 2X Brilliant III SYBR®

RT/RNase Block

Reference Dye 100 mM DTT

Green QRT-PCR Master

Mix

Not applicable. Not applicable. Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to

Regulation (EC) No. 1907/2006, Annex XIII : 2X Brilliant III SYBR®

Green QRT-PCR Master

RT/RNase Block This mixture does not contain any substances that are

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

assessed to be a PBT or a vPvB.

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

None known.

assessed to be a PBT or a vPvB.

Other hazards which do

not result in classification : 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block None known. Reference Dye None known. 100 mM DTT None known.

## **SECTION 3: Composition/information on ingredients**

: 2X Brilliant III SYBR® Green QRT-3.1 Substances Mixture

**PCR Master Mix** 

RT/RNase Block Reference Dye 100 mM DTT

Mixture Mixture Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
2X Brilliant III SYBR® Green				
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]

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Brilliant III Ultra-Fast SYBR Green	QRT-PCR Master Mix, Part Νι	umber 600886	
SECTION 3: Composition	/information on ingr	edients	
		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.

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

## **SECTION 4: First aid measures**

4.1	Description	of first aid	measures

	illeasures			
4.1 Description of first aid me	easures			
Eye contact	2X Brilliant III SYBR® Green QRT-PCR Master Mix 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 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 SYBR® Green QRT-PCR Master Mix RT/RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  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 SYBR® Green QRT-PCR Master

Mix

RT/RNase Block

Reference Dye

100 mM DTT

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur. Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

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## **SECTION 4: First aid measures**

: 2X Brilliant III SYBR® Ingestion

Green 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

symptoms occur.

100 mM DTT 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 SYBR®

Mix

Green QRT-PCR Master

No action shall be taken involving any personal risk or

without suitable training.

No action shall be taken involving any personal risk or RT/RNase Block

without suitable training.

No action shall be taken involving any personal risk or Reference Dye

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

**Eye contact** : 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

Mix

RT/RNase Block No known significant effects or critical hazards. Reference Dye No known significant effects or critical hazards. No known significant effects or critical hazards. 100 mM DTT

Inhalation : 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

Mix

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. 2X Brilliant III SYBR® No known significant effects or critical hazards.

Skin contact Green QRT-PCR Master

Mix

RT/RNase Block No known significant effects or critical hazards. No known significant effects or critical hazards. Reference Dye 100 mM DTT No known significant effects or critical hazards.

Ingestion 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

RT/RNase Block No known significant effects or critical hazards. No known significant effects or critical hazards. Reference Dye 100 mM DTT No known significant effects or critical hazards.

Over-exposure signs/symptoms

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## **SECTION 4: First aid measures**

Eye contact : 2X Brilliant III SYBR® No specific data.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
100 mM DTT
No specific data.
No specific data.

Inhalation : 2X Brilliant III SYBR® No specific data.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
100 mM DTT
No specific data.
No specific data.
No specific data.

Skin contact : 2X Brilliant III SYBR® No specific data.

Green QRT-PCR Master Mix

RT/RNase Block No specific data.
Reference Dye No specific data.
100 mM DTT No specific data.

Ingestion : 2X Brilliant III SYBR® No specific data.

Green QRT-PCR 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

Notes to physician : 2X Brilliant III SYBR® Treat symptomatically. Contact poison treatment specialist

Green QRT-PCR Master

Mix

aster immediately if large quantities have been ingested or inhaled.

RT/RNase Block 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 SYBR® No specific treatment.

Green QRT-PCR Master

Mix

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 SYBR®

Green QRT-PCR Master

Mix

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.

Use an extinguishing agent suitable for the surrounding fire.

#### **Unsuitable extinguishing**

media

2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block None known.
Reference Dye None known.
100 mM DTT None known.

#### 5.2 Special hazards arising from the substance or mixture

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None known.

## **SECTION 5: Firefighting measures**

Hazards from the substance or mixture 2X Brilliant III SYBR® Green QRT-PCR Master In a fire or if heated, a pressure increase will occur and the

container may burst.

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 Reference Dye

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 SYBR® Green QRT-PCR Master

Decomposition products may include the following materials:

Mix

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

Decomposition products may include the following materials: RT/RNase Block

carbon dioxide carbon monoxide

Decomposition products may include the following materials: Reference Dye

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

Special precautions for fire-fighters

: 2X Brilliant III SYBR® Green QRT-PCR Master

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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

Reference Dye

2X Brilliant III SYBR®

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.

Fire-fighters should wear appropriate protective equipment Reference Dye

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)

**Special protective** equipment for firefighters

Green QRT-PCR Master

conforming to European standard EN 469 will provide a

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## **SECTION 5: Firefighting measures**

100 mM DTT

basic level of protection for chemical incidents.

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 SYBR® Green QRT-PCR Master

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.

No action shall be taken involving any personal risk or Reference Dye

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.

No action shall be taken involving any personal risk or 100 mM DTT 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

: 2X Brilliant III SYBR® Green QRT-PCR Master

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".

RT/RNase Block If specialised clothing is required to deal with the spillage,

> take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

If specialised clothing is required to deal with the spillage, Reference Dye

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 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 SYBR® Green 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 pollution (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 pollution (sewers, waterways, soil or air).

Avoid dispersal of spilt material and runoff and contact with Reference Dye

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(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

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

authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: 2X Brilliant III SYBR®

Green QRT-PCR Master

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.

RT/RNase Block Stop leak if without risk. Move containers from spill area.

> Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Reference Dye

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

: 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** 

: 2X Brilliant III SYBR®

Green QRT-PCR Master

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 SYBR®

Reference Dye

Green QRT-PCR Master

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

Put on appropriate personal protective equipment (see

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. 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. Eating, drinking and smoking should be prohibited in areas

100 mM DTT where this material is handled, stored and processed.

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## **SECTION 7: Handling and storage**

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 SYBR® Green 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 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.

Not available.

## 7.3 Specific end use(s)

Recommendations

: 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block Reference Dye 100 mM DTT Industrial applications, Professional applications.

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial sector specific

solutions

: 2X Brilliant III SYBR® Green QRT-PCR Master

Mix

RT/RNase Block Not available.
Reference Dye Not available.
100 mM DTT Not available.

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## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
2X Brilliant III SYBR® Green QRT-PCR Master Mix Glycerol	NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m³ 8 hours. Form: mist
RT/RNase Block Glycerol	NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m³ 8 hours. Form: mist

## Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to 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 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 measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

#### **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.

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## SECTION 8: Exposure controls/personal protection

**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** : 2X Brilliant III SYBR® Liquid.

Green QRT-PCR Master

RT/RNase Block Liquid. Reference Dye Liquid. 100 mM DTT Liquid.

Colour 2X Brilliant III SYBR® Not available.

Green QRT-PCR Master

Mix

RT/RNase Block Not available. Not available. Reference Dye 100 mM DTT Not available.

Not available. **Odour** 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block Not available. Not available. Reference Dve 100 mM DTT Not available.

**Odour threshold** 2X Brilliant III SYBR® Not available.

Green QRT-PCR Master

Mix

RT/RNase Block Not available. Reference Dye Not available. 100 mM DTT Not available. Not available.

Melting point/freezing

point

2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

Not available. RT/RNase Block Reference Dye Not available.

0°C 100 mM DTT

Initial boiling point and

boiling range

: 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block Not available. Reference Dye Not available. 100 mM DTT 100°C (212°F) Not applicable.

Flammability (solid, gas)

2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block Not applicable. Not applicable. Reference Dve 100 mM DTT Not applicable.

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Not available.

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

or explosive limits

Upper/lower flammability : 2X Brilliant III SYBR® Not available. Green QRT-PCR Master

Mix

RT/RNase Block Not available. Not available. Reference Dye 100 mM DTT Not available.

Flash point

	Closed cup		Open cup		up	
Ingredient name	°C	°F	Method	°C	°F	Method
2X Brilliant III SYBR® Green QRT-PCR Master Mix						
Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	
Edetic acid	>100	>212	DIN 51758			
RT/RNase Block						
Edetic acid	>100	>212	DIN 51758			
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				

**Auto-ignition** temperature

Ingredient name	°C	°F	Method
2X Brilliant III SYBR® Green QRT- PCR Master Mix			
Dimethyl sulfoxide	300 to 302	572 to 575.6	
Glycerol	370	698	
RT/RNase Block			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263

**Decomposition** temperature

: 2X Brilliant III SYBR®

Not available. Green QRT-PCR Master

Mix

RT/RNase Block Not available. Reference Dye Not available. 100 mM DTT Not available.

pH 2X Brilliant III SYBR® 7.8

Green QRT-PCR Master

Mix

8 RT/RNase Block Reference Dye

100 mM DTT Not available. Not available.

: 2X Brilliant III SYBR® **Viscosity** 

> Green QRT-PCR Master Mix

RT/RNase Block Not available. Reference Dye Not available. 100 mM DTT Not available.

Solubility(ies)

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

2X Brilliant III SYBR®

Easily soluble in the following materials: cold water and hot

Green QRT-PCR Master water.

Mix

RT/RNase Block Easily soluble in the following materials: cold water and hot

water.

Reference Dye Easily soluble in the following materials: cold water and hot

water.

100 mM DTT Easily soluble in the following materials: cold water and hot

water.

Partition coefficient: noctanol/water

2X Brilliant III SYBR® Green QRT-PCR Master

Not applicable.

Mix

RT/RNase Block Not applicable. Reference Dye Not applicable. Not applicable. 100 mM DTT

Vapour pressure

	Vapour Pressure at 20°C		Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
2X Brilliant III SYBR® Green QRT-PCR Master Mix						
water	23.8	3.2		92.258	12.3	
Sorbitan monolaurate, ethoxylated	<1	<0.13				
RT/RNase Block						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
Reference Dye						
water	23.8	3.2		92.258	12.3	
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
100 mM DTT						
water	23.8	3.2		92.258	12.3	

**Evaporation rate** 

: 2X Brilliant III SYBR® Green QRT-PCR Master Not available.

Mix

RT/RNase Block Not available. Not available. Reference Dye 100 mM DTT Not available.

**Relative density** 

2X Brilliant III SYBR®

Not available.

Green QRT-PCR Master

Mix

Not available. RT/RNase Block Reference Dye Not available. 100 mM DTT Not available. : 2X Brilliant III SYBR®

Vapour density

Not available.

Green QRT-PCR Master

Mix

RT/RNase Block Not available. Reference Dye Not available. 100 mM DTT Not available.

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

**Explosive properties** : 2X Brilliant III SYBR® Not available.

Green QRT-PCR Master

RT/RNase Block Not available. Not available. Reference Dye 100 mM DTT Not available. Not available.

2X Brilliant III SYBR® **Oxidising properties** 

Green QRT-PCR Master

Mix

RT/RNase Block Not available. Reference Dye Not available. 100 mM DTT Not available.

**Particle characteristics** 

Median particle size 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block Not applicable. Not applicable. Reference Dye 100 mM DTT Not applicable.

9.2 Other information

No additional information.

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

10.1 Reactivity : 2X Brilliant III SYBR®

Mix

No specific test data related to reactivity available for this Green QRT-PCR Master product or its ingredients.

RT/RNase Block No specific test data related to reactivity available for this

product or its ingredients.

Not applicable.

Reference Dye 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.

The product is stable.

10.2 Chemical stability : 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block The product is stable. Reference Dye The product is stable. 100 mM DTT The product is stable.

10.3 Possibility of hazardous reactions : 2X Brilliant III SYBR®

Green QRT-PCR Master

Under normal conditions of storage and use, hazardous

reactions will not occur.

RT/RNase Block Under normal conditions of storage and use, hazardous

reactions will not occur.

Reference Dye Under normal conditions of storage and use, hazardous

reactions will not occur.

100 mM DTT Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid : 2X Brilliant III SYBR® No specific data.

Green QRT-PCR Master

Mix

RT/RNase Block No specific data. No specific data. Reference Dye 100 mM DTT No specific data.

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

10.5 Incompatible materials

: 2X Brilliant III SYBR® Green QRT-PCR Master May react or be incompatible with oxidising materials.

Mix

RT/RNase Block Reference Dye 100 mM DTT May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

10.6 Hazardous

decomposition products

: 2X Brilliant III SYBR® Green QRT-PCR Master

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

Mix

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		N/A N/A	N/A N/A	N/A N/A	N/A N/A

## **Irritation/Corrosion**

**Conclusion/Summary**: Not available.

**Sensitiser** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

Carcinogenicity

**Conclusion/Summary**: Not available.

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
<b>100 mM DTT</b> (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.

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## **SECTION 11: Toxicological information**

Information on likely routes of exposure

: 2X Brilliant III SYBR® Green QRT-PCR Master

Routes of entry anticipated: Oral, Dermal, Inhalation.

Mix

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 effects

Inhalation : 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

**Ingestion** : 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Skin contact : 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

**Eye contact** : 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : 2X Brilliant III SYBR® No specific data.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
100 mM DTT
No specific data.
No specific data.

Ingestion : 2X Brilliant III SYBR® No specific data.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
No specific data.
No specific data.
Rrilliant III SYRP®
No specific data.

Skin contact: 2X Brilliant III SYBR® No specific data.

Green QRT-PCR Master

Mix

RT/RNase Block
Reference Dye
No specific data.
No specific data.
Rrilliant III SYBR®
No specific data.

Eye contact : 2X Brilliant III SYBR® No specific data.

Green QRT-PCR Master

Mix

RT/RNase Block No specific data.
Reference Dye No specific data.
100 mM DTT No specific data.

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u>

<u>Short term exposure</u>

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## **SECTION 11: Toxicological information**

**Potential immediate** 

effects

: Not available.

**Potential delayed** 

effects

: Not available.

Long term exposure

**Potential immediate** 

effects

: Not available.

**Potential delayed** 

effects

: Not available.

#### Potential chronic health effects

**General** : 2X Brilliant III SYBR® No known significant effects or critical hazards.

Green QRT-PCR Master

Mix

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. No known significant effects or critical hazards.

Carcinogenicity 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

RT/RNase Block No known significant effects or critical hazards. 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.

Mutagenicity 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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. No known significant effects or critical hazards.

Reproductive toxicity 2X Brilliant III SYBR®

Green QRT-PCR Master

RT/RNase Block No known significant effects or critical hazards. Reference Dve No known significant effects or critical hazards. 100 mM DTT No known significant effects or critical hazards.

Not available.

Other information 2X Brilliant III SYBR®

Green QRT-PCR Master

Mix

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.

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## **SECTION 12: Ecological information**

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.

**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	IATA
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.

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## **SECTION 14: Transport information**

14.7 Transport in bulk according to IMO

instruments

: Not available.

## **SECTION 15: Regulatory information**

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

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

Annex XIV - List of substances subject to authorisation

**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

Label : 2X Brilliant III SYBR® Green Not applicable.

QRT-PCR Master Mix

RT/RNase Block Not applicable.
Reference Dye Not applicable.
100 mM DTT Not applicable.

**Other EU regulations** 

Industrial emissions : Listed

(integrated pollution prevention and control)

- Aiı

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : Not determined.

Canada : Not determined.

**China** : All components are listed or exempted.

**Europe** : Not determined.

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## **SECTION 15: Regulatory information**

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

: 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 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 DTTAcute Tox. 4ACUTE TOXICITY - Category 4Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2STOT SE 3SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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#### **Notice to reader**

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