

SAFETY DATA SHEET



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. (Kit) : 600885
Part No. : Brilliant III QRT-PCR 600884-51
Master Mix
RT/RNase Block 600884-52
Reference Dye 600530-53
100 mM DTT 600089-53

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

Identified uses

| | |
|--|---------------------------|
| Analytical reagent. | |
| <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | 10 x (2 x 2 ml) |
| RT/RNase Block | 10 x 0.4 ml |
| Reference Dye | 10 x 0.1 ml (100 µl 1 mM) |
| 100 mM DTT | 10 x 0.1 ml (100 µl) |

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 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 : 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.

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

Date of issue/Date of revision : 21/08/2017

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SECTION 2: Hazards identification

100 mM DTT

unknown dermal toxicity: 1 - 10%
 Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
 Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
 Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
 Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.4%

Ingredients of unknown ecotoxicity : Reference Dye

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 | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | No signal word. No signal word. No signal word. No signal word. |
| Hazard statements | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix 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. No known significant effects or critical hazards. |
| Precautionary statements | | |
| Prevention | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not applicable. Not applicable. Not applicable. Not applicable. |
| Response | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not applicable. Not applicable. Not applicable. Not applicable. |
| Storage | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not applicable. Not applicable. Not applicable. Not applicable. |
| Disposal | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not applicable. Not applicable. Not applicable. Not applicable. |
| Hazardous ingredients | : <input checked="" type="checkbox"/> Reference Dye 100 mM DTT | Not applicable. Not applicable. |
| Supplemental label elements | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not applicable. Not applicable. Safety data sheet available on request. Safety data sheet available on request. |

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SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Brilliant III QRT-PCR Master Mix Not applicable.
 RT/RNase Block Not applicable.
 Reference Dye Not applicable.
 100 mM DTT Not applicable.

Special packaging requirements

Tactile warning of danger : 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

Other hazards which do not result in classification : Brilliant III QRT-PCR Master Mix None known.
 RT/RNase Block None known.
 Reference Dye None known.
 100 mM DTT None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : Brilliant III QRT-PCR Master Mixture
 Mix
 RT/RNase Block Mixture
 Reference Dye Mixture
 100 mM DTT Mixture

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|--|---|-----------|--|------|
| <input checked="" type="checkbox"/> 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] |
| Reference Dye 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride | EC: 214-684-5 CAS: 1185-53-1 | ≤3 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 | [1] |
| 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 See Section 16 for the full text of the H statements declared above. | [1] |

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SECTION 3: Composition/information on ingredients

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

Type

- [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

SECTION 4: First aid measures

4.1 Description of first aid measures

| | | | |
|---------------------|---|--|---|
| Eye contact | : | <input checked="" type="checkbox"/> 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 | : | <input checked="" type="checkbox"/> 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 | : | <input checked="" type="checkbox"/> 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 | : | <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If |

SECTION 4: First aid measures

| | | |
|-----------------------------------|--|--|
| | Reference Dye | 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. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | No action shall be taken involving any personal risk or without suitable training. |
| | RT/RNase Block | 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

| | | |
|---------------------|--|---|
| Eye contact | : <input checked="" type="checkbox"/> 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. |
| Inhalation | : <input checked="" type="checkbox"/> 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. |
| Skin contact | : <input checked="" type="checkbox"/> 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. |
| Ingestion | : <input checked="" type="checkbox"/> 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. |

Over-exposure signs/symptoms

| | | |
|--------------------|--|-------------------|
| Eye contact | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | No specific data. |
| | RT/RNase Block | No specific data. |
| | Reference Dye | No specific data. |
| | 100 mM DTT | No specific data. |
| Inhalation | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | No specific data. |
| | RT/RNase Block | No specific data. |
| | Reference Dye | No specific data. |
| | 100 mM DTT | No specific data. |

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SECTION 4: First aid measures

| | | | |
|---------------------|---|--|-------------------|
| Skin contact | : | <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | No specific data. |
| | | RT/RNase Block | No specific data. |
| | | Reference Dye | No specific data. |
| | | 100 mM DTT | No specific data. |
| Ingestion | : | <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | No specific data. |
| | | 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 | : | <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Treat symptomatically. Contact poison treatment specialist 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 | : | <input checked="" type="checkbox"/> 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 | : | <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Use an extinguishing agent suitable for the surrounding fire. |
| | | RT/RNase Block | Use an extinguishing agent suitable for the surrounding fire. |
| | | Reference Dye | Use an extinguishing agent suitable for the surrounding fire. |
| | | 100 mM DTT | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : | <input checked="" type="checkbox"/> 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 | : | <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | 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. |
| | | 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 | : | <input checked="" type="checkbox"/> 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: carbon dioxide carbon monoxide |

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SECTION 5: Firefighting measures

| | |
|---------------|--|
| 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

Special precautions for fire-fighters

| | |
|--|---|
| : <input checked="" type="checkbox"/> 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

| | |
|--|---|
| : <input checked="" type="checkbox"/> 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

| | |
|--|---|
| : <input checked="" type="checkbox"/> 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 |

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SECTION 6: Accidental release measures

| | | |
|---|--|--|
| | Reference Dye | appropriate personal protective equipment. 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. |
| For emergency responders | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | 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". |
| | Reference Dye | 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 | 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 | : <input checked="" type="checkbox"/> 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 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). |
| | 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 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 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 | : <input checked="" type="checkbox"/> 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 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. |
| | Reference Dye | 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 |

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SECTION 6: Accidental release measures

100 mM DTT 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.

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 : 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 : 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 : 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

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SECTION 7: Handling and storage

| | |
|---------------|---|
| Reference Dye | 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. |

7.3 Specific end use(s)

| | | |
|---|---|--|
| Recommendations | : <input checked="" type="checkbox"/> Brilliant III 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 | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not applicable. Not applicable. Not applicable. Not applicable. |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|--|--|
| <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix Glycerol | EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist |
| RT/RNase Block Glycerol | EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist |

SECTION 8: Exposure controls/personal protection

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 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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | | |
|---|--|-----------------|
| Physical state | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Liquid. |
| | RT/RNase Block | Liquid. |
| | Reference Dye | Liquid. |
| | 100 mM DTT | Liquid. |
| Colour | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Not available. |
| | RT/RNase Block | Not available. |
| | Reference Dye | Not available. |
| | 100 mM DTT | Not available. |
| Odour | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Not available. |
| | RT/RNase Block | Not available. |
| | Reference Dye | Not available. |
| | 100 mM DTT | Not available. |
| Odour threshold | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Not available. |
| | RT/RNase Block | Not available. |
| | Reference Dye | Not available. |
| | 100 mM DTT | Not available. |
| pH | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | 7.8 |
| | RT/RNase Block | 8 |
| | Reference Dye | 8 |
| | 100 mM DTT | Not available. |
| Melting point/freezing point | : <input checked="" type="checkbox"/> 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 | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Not available. |
| | RT/RNase Block | Not available. |
| | Reference Dye | Not available. |
| | 100 mM DTT | 100°C |
| Flash point | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Not available. |
| | RT/RNase Block | Not available. |
| | Reference Dye | Not available. |
| | 100 mM DTT | Not available. |
| Evaporation rate | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Not available. |
| | RT/RNase Block | Not available. |
| | Reference Dye | Not available. |
| | 100 mM DTT | Not available. |
| Flammability (solid, gas) | : <input checked="" type="checkbox"/> 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 or explosive limits | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | Not available. |
| | RT/RNase Block | Not available. |
| | Reference Dye | Not available. |
| | 100 mM DTT | Not available. |

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SECTION 9: Physical and chemical properties

| | | |
|---|---|--|
| Vapour pressure | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |
| Vapour density | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |
| Relative density | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |
| Solubility(ies) | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |
| Auto-ignition temperature | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |
| Decomposition temperature | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |
| Viscosity | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |
| Explosive properties | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |
| Oxidising properties | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not available. Not available. Not available. Not available. |

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

| | | |
|--|---|--|
| 10.1 Reactivity | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | 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. |
| 10.2 Chemical stability | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | The product is stable. The product is stable. The product is stable. The product is stable. |
| 10.3 Possibility of hazardous reactions | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | No specific data. No specific data. No specific data. No specific data. |
| 10.5 Incompatible materials | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master 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. May react or be incompatible with oxidising materials. |
| 10.6 Hazardous decomposition products | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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

| Route | ATE value |
|--------------------|---------------|
| 100 mM DTT Oral | 33333.3 mg/kg |

Irritation/Corrosion

Conclusion/Summary : Not available.

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SECTION 11: Toxicological information

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|------------|-------------------|------------------------------|
| Reference Dye 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | Category 3 | Not applicable. | Respiratory tract irritation |
| 100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol | Category 3 | Not applicable. | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Brilliant III QRT-PCR Master Mix Routes of entry anticipated: Oral, Dermal, Inhalation.
 RT/RNase Block Routes of entry anticipated: Oral, Dermal, Inhalation.
 Reference Dye Routes of entry anticipated: Oral, Dermal, Inhalation.
 100 mM DTT Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : 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.

Ingestion : 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.

Skin contact : 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 : 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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Brilliant III QRT-PCR Master Mix No specific data.
 RT/RNase Block No specific data.
 Reference Dye No specific data.
 100 mM DTT No specific data.

Ingestion : Brilliant III QRT-PCR Master Mix No specific data.
 RT/RNase Block No specific data.
 Reference Dye No specific data.
 100 mM DTT No specific data.

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SECTION 11: Toxicological information

| | | |
|---------------------|--|-------------------|
| Skin contact | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | No specific data. |
| | RT/RNase Block | No specific data. |
| | Reference Dye | No specific data. |
| | 100 mM DTT | No specific data. |
| Eye contact | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix | No specific data. |
| | RT/RNase Block | No specific data. |
| | Reference Dye | No specific data. |
| | 100 mM DTT | No specific data. |

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

| | | |
|------------------------------|--|---|
| General | : <input checked="" type="checkbox"/> 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 | : <input checked="" type="checkbox"/> 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. |
| Mutagenicity | : <input checked="" type="checkbox"/> 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. |
| Teratogenicity | : <input checked="" type="checkbox"/> 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. |
| Developmental effects | : <input checked="" type="checkbox"/> 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. |
| Fertility effects | : <input checked="" type="checkbox"/> 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. |

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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 coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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 : Not regulated.

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 Annex II of Marpol and the IBC Code : 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 | : <input checked="" type="checkbox"/> Brilliant III QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT | Not applicable. Not applicable. Not applicable. Not applicable. |
|---|---|--|

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

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 (Annexes A, B, C, E)

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. |
| Japan | : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. |
| Malaysia | : Not determined. |
| New Zealand | : Not determined. |
| Philippines | : Not determined. |
| Republic of Korea | : Not determined. |

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SECTION 15: Regulatory information

| | |
|----------------------|---|
| Taiwan | : Not determined. |
| Thailand | : <input checked="" type="checkbox"/> Not determined. |
| Turkey | : Not determined. |
| United States | : Not determined. |
| Viet Nam | : <input checked="" type="checkbox"/> 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]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

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

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

Full text of classifications [CLP/GHS]

| | |
|--|---|
| Reference Dye Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335 100 mM DTT Acute Tox. 4, H302 Aquatic Chronic 3, H412 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (oral) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 |
|--|---|

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Date of previous issue : 21/01/2016.

Version : 2

Notice to reader

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SECTION 16: Other information

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