SAFETY DATA SHEET

miRNA QPCR Master Mix, Part Number 600583

Section 1. Identification

Product identifier : miRNA QPCR Master Mix, Part Number 600583
Part no. (chemical kit) : 600583
Part no. : miRNA QPCR Master Mix 600583-51
Reference Dye 600530-53

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

Material uses : Analytical reagent.
miRNA QPCR Master Mix 2 x 2.5 ml
Reference Dye 0.1 ml (100 µl 1 mM)

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture
Not classified.

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

GHS label elements

Signal word : No signal word. No signal word.
Hazard statements : No known significant effects or critical hazards.
No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable. Not applicable.
Response : Not applicable. Not applicable.
Storage : Not applicable. Not applicable.
Disposal : Not applicable. Not applicable.

Supplemental label elements

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Version : 5
1/11
Section 2. Hazard(s) identification

Additional warning phrases:
- miRNA QPCR Master Mix: Not applicable.
- Reference Dye: Not applicable.

Other hazards which do not result in classification:
- miRNA QPCR Master Mix: None known.
- Reference Dye: None known.

Section 3. Composition and ingredient information

Substance/mixture:
- miRNA QPCR Master Mix: Mixture
- Reference Dye: Mixture

CAS number/other identifiers:

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>≤3</td>
<td>56-81-5</td>
</tr>
</tbody>
</table>

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.

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

Section 4. First aid measures

Description of necessary first aid measures:

Eye contact:
- miRNA QPCR 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.
- 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.

Inhalation:
- miRNA QPCR Master Mix: 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.

Skin contact:
- miRNA QPCR Master Mix: 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.

Ingestion:
- miRNA QPCR 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.
- Reference Dye: 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.
Section 4. First aid measures

Most important symptoms/effects, acute and delayed

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>miRNA QPCR Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>miRNA QPCR Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>miRNA QPCR Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>miRNA QPCR Master Mix</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Over-exposure signs/symptoms**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>miRNA QPCR Master Mix</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>miRNA QPCR Master Mix</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>miRNA QPCR Master Mix</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>miRNA QPCR Master Mix</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**Indication of immediate medical attention and special treatment needed, if necessary**

<table>
<thead>
<tr>
<th>Notes to physician</th>
<th>miRNA QPCR Master Mix</th>
<th>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific treatments</th>
<th>miRNA QPCR Master Mix</th>
<th>No specific treatment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protection of first-aiders</th>
<th>miRNA QPCR Master Mix</th>
<th>No action shall be taken involving any personal risk or without suitable training.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

See toxicological information (Section 11)

Section 5. Firefighting measures

**Extinguishing media**

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>miRNA QPCR Master Mix</th>
<th>Use an extinguishing agent suitable for the surrounding fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>miRNA QPCR Master Mix</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>None known.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>miRNA QPCR Master Mix</th>
<th>In a fire or if heated, a pressure increase will occur and the container may burst.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Dye</td>
<td>miRNA QPCR Master Mix</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>
Section 5. Firefighting measures

Hazardous thermal decomposition products: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide

Special protective actions for fire-fighters: 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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: 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).

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Version: 5
Section 6. Accidental release measures

Methods and material for containment and cleaning up

Methods for cleaning up

miRNA QPCR 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.

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 of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

miRNA QPCR Master Mix
Put on appropriate personal protective equipment (see Section 8).

Reference Dye
Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

miRNA QPCR 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.

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.

Conditions for safe storage, including any incompatibilities

miRNA QPCR 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.

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.
Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>miRNA QPCR Master Mix</td>
<td>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

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.

Section 9. Physical and chemical properties

Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>miRNA QPCR Master Mix</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odour</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Melting point</td>
<td>0°C (32°F)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 07/01/2016
Version: 5
Section 9. Physical and chemical properties

### Boiling point
- **miRNA QPCR Master Mix**: 100°C (212°F)
- **Reference Dye**: Not available.

### Flash point
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Evaporation rate
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Flammability (solid, gas)
- **miRNA QPCR Master Mix**: Not applicable.
- **Reference Dye**: Not applicable.

### Lower and upper explosive (flammable) limits
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Vapour pressure
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Vapour density
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Relative density
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Solubility
- **miRNA QPCR Master Mix**: Easily soluble in the following materials: cold water and hot water.
- **Reference Dye**: Easily soluble in the following materials: cold water and hot water.

### Partition coefficient: n-octanol/water
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Auto-ignition temperature
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Decomposition temperature
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

### Viscosity
- **miRNA QPCR Master Mix**: Not available.
- **Reference Dye**: Not available.

Section 10. Stability and reactivity

### Reactivity
- **miRNA QPCR Master Mix**: No specific test data related to reactivity available for this product or its ingredients.
- **Reference Dye**: No specific test data related to reactivity available for this product or its ingredients.

### Chemical stability
- **miRNA QPCR Master Mix**: The product is stable.
- **Reference Dye**: The product is stable.

### Possibility of hazardous reactions
- **miRNA QPCR Master Mix**: 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.

### Conditions to avoid
- **miRNA QPCR Master Mix**: No specific data.
- **Reference Dye**: No specific data.

### Incompatible materials
- **miRNA QPCR Master Mix**: May react or be incompatible with oxidising materials.
- **Reference Dye**: May react or be incompatible with oxidising materials.

### Hazardous decomposition products
- **miRNA QPCR Master Mix**: 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.
Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>miRNA QPCR Master Mix</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>miRNA QPCR Master Mix</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitisation
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)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Routes of entry</th>
<th>miRNA QPCR Master Mix</th>
<th>Reference Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

Potential acute health effects

Eye contact : miRNA QPCR Master Mix Reference Dye
No known significant effects or critical hazards.

Inhalation : miRNA QPCR Master Mix Reference Dye
No known significant effects or critical hazards.

Skin contact : miRNA QPCR Master Mix Reference Dye
No known significant effects or critical hazards.

Ingestion : miRNA QPCR Master Mix Reference Dye
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : miRNA QPCR Master Mix Reference Dye
No specific data.

Inhalation : miRNA QPCR Master Mix Reference Dye
No specific data.

Skin contact : miRNA QPCR Master Mix Reference Dye
No specific data.
Section 11. Toxicological information

Ingestion

miRNA QPCR Master Mix: No specific data.
Reference Dye: No specific data.

Reference Dye: 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: miRNA QPCR Master Mix - No known significant effects or critical hazards.
Reference Dye - No known significant effects or critical hazards.

Carcinogenicity: miRNA QPCR Master Mix - No known significant effects or critical hazards.
Reference Dye - No known significant effects or critical hazards.

Mutagenicity: miRNA QPCR Master Mix - No known significant effects or critical hazards.
Reference Dye - No known significant effects or critical hazards.

Teratogenicity: miRNA QPCR Master Mix - No known significant effects or critical hazards.
Reference Dye - No known significant effects or critical hazards.

Developmental effects: miRNA QPCR Master Mix - No known significant effects or critical hazards.
Reference Dye - No known significant effects or critical hazards.

Fertility effects: miRNA QPCR Master Mix - No known significant effects or critical hazards.
Reference Dye - No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>miRNA QPCR Master Mix</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>miRNA QPCR Master Mix</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>miRNA QPCR Master Mix</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Section 12. Ecological information

**Mobility in soil**
- **Soil/water partition coefficient (Koc)**: Not available.

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

Section 13. Disposal considerations

**Disposal methods**: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

**ADG / IMDG / IATA**: Not regulated as Dangerous Goods according to the ADG Code.

**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.

**Transport in bulk according to Annex II of Marpol and the IBC Code**: Not available.

Section 15. Regulatory information

**Standard Uniform Schedule of Medicine and Poisons**: Not regulated.

**Model Work Health and Safety Regulations - Scheduled Substances**: No listed substance

**International regulations**
- **Chemical Weapon Convention List Schedules I, II & III Chemicals**: Not listed.
- **Stockholm Convention on Persistent Organic Pollutants**: 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.
Section 15. Regulatory information

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.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 31/10/2018
Date of previous issue : 07/01/2016
Version : 5

Key to abbreviations : ADG = Australian Dangerous Goods
                        ATE = Acute Toxicity Estimate
                        BCF = Bioconcentration Factor
                        GHS = Globally Harmonized System of Classification and Labelling of Chemicals
                        IATA = International Air Transport Association
                        IBC = Intermediate Bulk Container
                        IMDG = International Maritime Dangerous Goods
                        LogPow = logarithm of the octanol/water partition coefficient
                        NOHSC = National Occupational Health and Safety Commission
                        SUSMP = Standard Uniform Schedule of Medicine and Poisons
                        UN = United Nations

Procedure used to derive the classification

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<th>Classification</th>
<th>Justification</th>
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References : Not available.

Indicates information that has changed from previously issued version.

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