SAFETY DATA SHEET
miRNA Labeling Reagent and Hybridization Kit, Part Number 5190-0408

Section 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>miRNA Labeling Reagent and Hybridization Kit, Part Number 5190-0408</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part no. (chemical kit)</td>
<td>5190-0408</td>
</tr>
<tr>
<td>Part no.</td>
<td>10X GE Blocking Agent Lyophilized 5190-0415</td>
</tr>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer 5190-0416</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate 5190-0408-P</td>
</tr>
</tbody>
</table>

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

Material uses : Analytical chemistry.

<table>
<thead>
<tr>
<th>Material uses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10X GE Blocking Agent Lyophilized</td>
<td>125 µg</td>
</tr>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>600 µl</td>
</tr>
<tr>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>27 µl</td>
</tr>
</tbody>
</table>

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

**2X Hi-RPM Hybridization Buffer**

H315 SKIN CORROSION/IRRITATION - Category 2
H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
H335 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2
H402 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

**2X Hi-RPM Hybridization Buffer** Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%
**2X Hi-RPM Hybridization Buffer** Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
**2X Hi-RPM Hybridization Buffer** Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10 - 30%

**2X Hi-RPM Hybridization Buffer** Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 17.9%

GHS label elements

Hazard pictograms : **2X Hi-RPM Hybridization Buffer**

Date of issue/Date of revision : 23/10/2018
Date of previous issue      : 23/02/2016
Version                    : 5
### Section 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Signal word</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X GE Blocking Agent Lyophilized</td>
</tr>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
</tr>
<tr>
<td>Cyanine 3-Cytidine Bisphosphate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X GE Blocking Agent Lyophilized</td>
</tr>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Cyanine 3-Cytidine Bisphosphate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Precautionary statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention</td>
</tr>
<tr>
<td>10X GE Blocking Agent Lyophilized</td>
</tr>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Cyanine 3-Cytidine Bisphosphate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X GE Blocking Agent Lyophilized</td>
</tr>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Cyanine 3-Cytidine Bisphosphate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X GE Blocking Agent Lyophilized</td>
</tr>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
</tr>
<tr>
<td>Cyanine 3-Cytidine Bisphosphate</td>
</tr>
</tbody>
</table>
Section 2. Hazard(s) identification

**Disposal**: Not applicable.

**Supplemental label elements**

**Additional warning phrases**: Not applicable.

**Other hazards which do not result in classification**: None known.

Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X GE Blocking Agent Lyophilized</td>
<td>DNA</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>Lithium chloride</td>
<td>≤12</td>
<td>7447-41-8</td>
</tr>
<tr>
<td></td>
<td>Lithium dodecyl sulphate</td>
<td>≤6.4</td>
<td>2044-56-6</td>
</tr>
<tr>
<td></td>
<td>Polyoxyethylene octyl phenyl ether</td>
<td>≤6.4</td>
<td>9002-93-1</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**: 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. Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Section 4. First aid measures

**Inhalation**

**Cyanine 3-Cytidine Bisphosphate**

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.

**10X GE Blocking Agent Lyophilized**

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.

**2X Hi-RPM Hybridization Buffer**

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

**Cyanine 3-Cytidine Bisphosphate**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**

**10X GE Blocking Agent Lyophilized**

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

**2X Hi-RPM Hybridization Buffer**

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Cyanine 3-Cytidine Bisphosphate**

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

**Ingestion**

**10X GE Blocking Agent Lyophilized**

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.

**2X Hi-RPM Hybridization Buffer**

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a
Section 4. First aid measures

physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

<table>
<thead>
<tr>
<th>Section</th>
<th>Compound</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>10X GE Blocking Agent Lyophilized</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>10X GE Blocking Agent Lyophilized</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>10X GE Blocking Agent Lyophilized</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Section</th>
<th>Compound</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>10X GE Blocking Agent Lyophilized</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>pain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>watering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>redness</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>10X GE Blocking Agent Lyophilized</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>respiratory tract irritation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>coughing</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 23/10/2018 Date of previous issue: 23/02/2016 Version: 5
Section 4. First aid measures

| Skin contact                  | 10X GE Blocking Agent Lyophilized | No specific data. |
|                              | 2X Hi-RPM Hybridization Buffer    | Adverse symptoms may include the following: |
|                              |                                  | pain or irritation |
|                              |                                  | redness |
|                              | Cyanine 3-Cytidine Bisphosphate   | No specific data. |

| Ingestion                    | 10X GE Blocking Agent Lyophilized | No specific data. |
|                              | 2X Hi-RPM Hybridization Buffer    | Adverse symptoms may include the following: |
|                              |                                  | stomach pains |
|                              | Cyanine 3-Cytidine Bisphosphate   | No specific data. |

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

Notes to physician

| 10X GE Blocking Agent Lyophilized | 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. |
| 2X Hi-RPM Hybridization Buffer    | 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. |
| Cyanine 3-Cytidine Bisphosphate   | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |

Specific treatments

| 10X GE Blocking Agent Lyophilized | No specific treatment. |
| 2X Hi-RPM Hybridization Buffer    | No specific treatment. |
| Cyanine 3-Cytidine Bisphosphate   | No specific treatment. |

Protection of first-aiders

| 10X GE Blocking Agent Lyophilized | No action shall be taken involving any personal risk or without suitable training. |
| 2X Hi-RPM Hybridization Buffer    | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| Cyanine 3-Cytidine Bisphosphate   | No action shall be taken involving any personal risk or without suitable training. |

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

| 10X GE Blocking Agent Lyophilized | Use an extinguishing agent suitable for the surrounding fire. |
| 2X Hi-RPM Hybridization Buffer    | Use an extinguishing agent suitable for the surrounding fire. |
| Cyanine 3-Cytidine Bisphosphate   | Use an extinguishing agent suitable for the surrounding fire. |
## Section 5. Firefighting measures

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>10X GE Blocking Agent Lyophilized</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>None known.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>10X GE Blocking Agent Lyophilized</th>
<th>No specific fire or explosion hazard.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>10X GE Blocking Agent Lyophilized</th>
<th>Decomposition products may include the following materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>carbon dioxide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>carbon monoxide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>nitrogen oxides</td>
</tr>
<tr>
<td></td>
<td></td>
<td>phosphorus oxides</td>
</tr>
<tr>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td></td>
<td>Decomposition products may include the following materials:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>carbon dioxide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>carbon monoxide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>nitrogen oxides</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sulfur oxides</td>
</tr>
<tr>
<td></td>
<td></td>
<td>halogenated compounds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>metal oxide/oxides</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
<th>10X GE Blocking Agent Lyophilized</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>10X GE Blocking Agent Lyophilized</th>
<th>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td></td>
<td>Cyanine 3-Cytidine Bisphosphate</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>
### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | 10X GE Blocking Agent Lyophilized | 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. |
| 2X Hi-RPM Hybridization Buffer | 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| Cyanine 3-Cytidine Bisphosphate | 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 | 10X GE Blocking Agent Lyophilized | 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". |
| 2X Hi-RPM Hybridization Buffer | 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". |
| Cyanine 3-Cytidine Bisphosphate | 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 | 10X GE Blocking Agent Lyophilized | 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). |
| 2X Hi-RPM Hybridization Buffer | 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). Water polluting material. May be harmful to the environment if released in large quantities. |
| Cyanine 3-Cytidine Bisphosphate | 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). |

| Methods and material for containment and cleaning up | Methods for cleaning up | Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. |
| 10X GE Blocking Agent Lyophilized | 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 6. Accidental release measures

Cyanine 3-Cytidine Bisphosphate
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

10X GE Blocking Agent Lyophilized
2X Hi-RPM Hybridization Buffer
Put on appropriate personal protective equipment (see Section 8).

Cyanine 3-Cytidine Bisphosphate
Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

10X GE Blocking Agent Lyophilized
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.

2X Hi-RPM Hybridization Buffer
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.

Cyanine 3-Cytidine Bisphosphate
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

10X GE Blocking Agent Lyophilized
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.

2X Hi-RPM Hybridization Buffer
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. Store locked up. Keep container tightly closed.
Section 7. Handling and storage

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. Do not store above the following temperature: -20°C (-4°F). 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.

Cyanine 3-Cytidine Bisphosphate

Section 8. Exposure controls and personal protection

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>DFG MAC-values list (Germany, 7/2017). TWA: 0.2 mg/m³, (as Li) 8 hours. Form: Inhalable fraction PEAK: 0.2 mg/m³, (as Li), 4 times per shift, 15 minutes. Form: Inhalable fraction</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td></td>
</tr>
</tbody>
</table>

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>DFG MAC-values list (Germany, 7/2017). TWA: 0.2 mg/m³, (as Li) 8 hours. Form: Inhalable fraction PEAK: 0.2 mg/m³, (as Li), 4 times per shift, 15 minutes. Form: Inhalable fraction</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

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: chemical splash goggles.

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Section 8. Exposure controls and personal protection

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

| Physical state | 10X GE Blocking Agent Lyophilized | Liquid. |
| 2X Hi-RPM Hybridization Buffer | Liquid. |
| Cyanine 3-Cytidine Bisphosphate | Liquid. |

Colour: Not available.

Odour: Not available.

Odour threshold: Not available.

pH: 6.1

Melting point: Not available.

Boiling point: Not available.
### Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>10X GE Blocking Agent Lyophilized</th>
<th>2X Hi-RPM Hybridization Buffer</th>
<th>Cyanine 3-Cytidine Bisphosphate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Lower and upper explosive (flammable) limits</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water, hot water, methanol, diethyl ether and acetone.</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Lyophilized 10X GE Blocking Agent</th>
<th>2X Hi-RPM Hybridization Buffer</th>
<th>Cyanine 3-Cytidine Bisphosphate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Lyophilized 10X GE Blocking Agent</th>
<th>2X Hi-RPM Hybridization Buffer</th>
<th>Cyanine 3-Cytidine Bisphosphate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>
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>2X Hi-RPM Hybridization Buffer</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>&gt;5.57 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>1629 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>1488 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>526 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Lithium dodecyl sulphate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Polyoxyethylene octyl phenyl ether</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1800 mg/kg</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>2X Hi-RPM Hybridization Buffer</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours</td>
<td>-</td>
</tr>
<tr>
<td>Polyoxyethylene octyl phenyl ether</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours</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)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Lithium dodecyl sulphate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Polyoxyethylene octyl phenyl ether</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>Category 2</td>
<td>Not determined</td>
<td>cardiovascular system, central nervous system (CNS), kidneys and thyroid</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

Aspiration hazard
Not available.

Information on likely routes of exposure

Inhalation
- 10X GE Blocking Agent Lyophilized
- 2X Hi-RPM Hybridization Buffer
- Cyanine 3-Cytidine Bisphosphate

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact
- 10X GE Blocking Agent Lyophilized
- 2X Hi-RPM Hybridization Buffer
- Cyanine 3-Cytidine Bisphosphate

No known significant effects or critical hazards.

Inhalation
- 10X GE Blocking Agent Lyophilized
- 2X Hi-RPM Hybridization Buffer
- Cyanine 3-Cytidine Bisphosphate

No known significant effects or critical hazards.

Skin contact
- 10X GE Blocking Agent Lyophilized
- 2X Hi-RPM Hybridization Buffer
- Cyanine 3-Cytidine Bisphosphate

No known significant effects or critical hazards.

Ingestion
- 10X GE Blocking Agent Lyophilized
- 2X Hi-RPM Hybridization Buffer
- Cyanine 3-Cytidine Bisphosphate

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
- 10X GE Blocking Agent Lyophilized
- 2X Hi-RPM Hybridization Buffer
- Cyanine 3-Cytidine Bisphosphate

Adverse symptoms may include the following:
- pain
- watering
- redness

Inhalation
- 10X GE Blocking Agent Lyophilized
- 2X Hi-RPM Hybridization Buffer
- Cyanine 3-Cytidine Bisphosphate

Adverse symptoms may include the following:
- respiratory tract irritation
- coughing

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## Section 11. Toxicological information

### Skin contact
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - No known significant effects or critical hazards.

### Ingestion
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - No known significant effects or critical hazards.

### 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
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - No known significant effects or critical hazards.

#### Carcinogenicity
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - No known significant effects or critical hazards.

#### Mutagenicity
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - No known significant effects or critical hazards.

#### Teratogenicity
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - No known significant effects or critical hazards.

#### Developmental effects
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - No known significant effects or critical hazards.

### Ingestion
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - Adverse symptoms may include the following:
    - stomach pains
  - No specific data.

### Skin contact
- **10X GE Blocking Agent Lyophilized**
- **2X Hi-RPM Hybridization Buffer**
- **Cyanine 3-Cytidine Bisphosphate**
  - Adverse symptoms may include the following:
    - pain or irritation
    - redness
    - blistering may occur
  - No specific data.

### Potential chronic health effects

#### Potential chronic health effects

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Section 11. Toxicological information

### Fertility effects
- 10X GE Blocking Agent Lyophilized
- 2X Hi-RPM Hybridization Buffer
- Cyanine 3-Cytidine Bisphosphate

No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>2583.6 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>9381.9 mg/kg</td>
</tr>
<tr>
<td>Inhalation (dusts and mists)</td>
<td>16.33 mg/l</td>
</tr>
</tbody>
</table>

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>2X Hi-RPM Hybridization Buffer</td>
<td>Acute EC50 112 mg/l Fresh water</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 249 mg/l Fresh water</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 17000 μg/l Fresh water</td>
<td>Fish - Pylchocheilus lucius - Swim-up</td>
<td>96 hours</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td>Acute NOEC 25 mg/l Fresh water</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute NOEC 63.4 mg/l Fresh water</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute NOEC 59.4 mg/l Fresh water</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 5.85 mg/l Fresh water</td>
<td>Crustaceans - Ceriodaphnia rigaudi - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td>Polyoxyethylene octyl phenyl ether</td>
<td>Acute LC50 11.2 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 4500 μg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Polyoxyethylene octyl phenyl ether</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>2X Hi-RPM Hybridization Buffer</td>
<td>4.86</td>
<td>-</td>
<td>high</td>
</tr>
<tr>
<td>Polyoxyethylene octyl phenyl ether</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Mobility in soil

| Soil/water partition coefficient (K<sub>oc</sub>) | Not available. |

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Section 12. Ecological information

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill 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.

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: Not determined.
Europe: Not determined.
Japan: Japan inventory (ENCS): Not determined.
                Japan inventory (ISHL): Not determined.
Malaysia: Not determined.

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Section 15. Regulatory information

**Republic of Korea**: 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**

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**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**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X Hi-RPM Hybridization Buffer</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3, H335</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2, H373 (cardiovascular system, central nervous system (CNS), kidneys, thyroid)</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Acute 3, H402</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 3, H412</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

**References**: Not available.

**Notice to reader**

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