Material Safety Data Sheet

SureSelect Target Enrichment Kit - Paired End Module Box 2 - 16 Reactions, Part Number 931022

1. Identification of the material and supplier

<table>
<thead>
<tr>
<th>Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name    : SureSelect Target Enrichment Kit - Paired End Module Box 2 - 16 Reactions, Part Number 931022</td>
</tr>
<tr>
<td>Part No. (Chemical Kit) : 931022</td>
</tr>
<tr>
<td>Part No.       : SureSelect RNase Block 5190-4383</td>
</tr>
<tr>
<td>: SureSelect ILM PCR Primers 5190-5443</td>
</tr>
<tr>
<td>: SureSelect Hyb 3 5190-4382</td>
</tr>
<tr>
<td>: SureSelect Block 2 5190-4381</td>
</tr>
<tr>
<td>: SureSelect Block 1 5190-5439</td>
</tr>
<tr>
<td>: SureSelect PE Block 3 5190-5441</td>
</tr>
<tr>
<td>ADG Supplier   : Not regulated as Dangerous Goods according to the ADG Code</td>
</tr>
<tr>
<td>Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd</td>
</tr>
<tr>
<td>: 679 Springvale Road</td>
</tr>
<tr>
<td>: Mulgrave</td>
</tr>
<tr>
<td>: Victoria 3170, Australia</td>
</tr>
<tr>
<td>: 1800 802 402</td>
</tr>
<tr>
<td>Emergency telephone number : CHEMTREC®: +(61)-290372994</td>
</tr>
</tbody>
</table>

2. Hazards identification

<table>
<thead>
<tr>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area of application  : SureSelect RNase Block Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>: SureSelect ILM PCR Primers Industrial applications.</td>
</tr>
<tr>
<td>: SureSelect Hyb 3 Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>: SureSelect Block 2 Industrial applications, Professional applications.</td>
</tr>
<tr>
<td>: SureSelect Block 1 Industrial applications.</td>
</tr>
<tr>
<td>: SureSelect PE Block 3 Industrial applications.</td>
</tr>
<tr>
<td>Material uses      : Analytical reagent.</td>
</tr>
<tr>
<td>: SureSelect RNase Block 0.016 ml</td>
</tr>
<tr>
<td>: SureSelect ILM PCR Primers 0.040 ml</td>
</tr>
<tr>
<td>: SureSelect Hyb 3 0.16 ml</td>
</tr>
<tr>
<td>: SureSelect Block 2 0.04 ml</td>
</tr>
<tr>
<td>: SureSelect Block 1 0.04 ml</td>
</tr>
<tr>
<td>: SureSelect PE Block 3 0.01 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block Not regulated.</td>
</tr>
<tr>
<td>SureSelect ILM PCR Primers Not regulated.</td>
</tr>
<tr>
<td>SureSelect Hyb 3 Not regulated.</td>
</tr>
<tr>
<td>SureSelect Block 2 Not regulated.</td>
</tr>
<tr>
<td>SureSelect Block 1 Not regulated.</td>
</tr>
<tr>
<td>SureSelect PE Block 3 Not regulated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Risk phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block Not classified.</td>
</tr>
<tr>
<td>SureSelect ILM PCR Primers Not classified.</td>
</tr>
<tr>
<td>SureSelect Hyb 3 Not classified.</td>
</tr>
<tr>
<td>SureSelect Block 2 Not classified.</td>
</tr>
<tr>
<td>SureSelect Block 1 Not classified.</td>
</tr>
<tr>
<td>SureSelect PE Block 3 Not classified.</td>
</tr>
</tbody>
</table>
2. Hazards identification

Safety phrases:
- SureSelect RNase Block: S36- Wear suitable protective clothing.
- SureSelect ILM PCR Primers: S36- Wear suitable protective clothing.
- SureSelect Hyb 3: S36- Wear suitable protective clothing.
- SureSelect Block 2: S36- Wear suitable protective clothing.
- SureSelect Block 1: S36- Wear suitable protective clothing.
- SureSelect PE Block 3: S36- Wear suitable protective clothing.

Statement of hazardous/dangerous nature:
- SureSelect RNase Block: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
- SureSelect ILM PCR Primers: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
- SureSelect Hyb 3: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
- SureSelect Block 2: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
- SureSelect Block 1: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
- SureSelect PE Block 3: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

Mixture:
- SureSelect RNase Block: Yes.
- SureSelect ILM PCR Primers: Yes.
- SureSelect Hyb 3: Yes.
- SureSelect Block 2: Yes.
- SureSelect Block 1: Yes.
- SureSelect PE Block 3: Yes.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>30 - 60</td>
</tr>
</tbody>
</table>

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

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.

4. First-aid measures

Inhalation:
- SureSelect RNase Block: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect ILM PCR Primers: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect Hyb 3: 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.
- SureSelect Block 2: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect Block 1: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- SureSelect PE Block 3: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
## 4. First-aid measures

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Product</th>
<th>First-aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SureSelect ILM PCR Primers</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 3</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Block 2</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Block 1</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SureSelect PE Block 3</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Product</th>
<th>First-aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
<tr>
<td>SureSelect ILM PCR Primers</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 3</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Block 2</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Block 1</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td></td>
</tr>
</tbody>
</table>
## 4. First-aid measures

<table>
<thead>
<tr>
<th>SureSelect PE Block 3</th>
<th>SureSelect RNase Block</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>SureSelect ILM PCR Primers</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Hyb 3</td>
<td>SureSelect Block 2</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect Block 1</td>
<td>SureSelect Block 1</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect PE Block 3</td>
<td>SureSelect PE Block 3</td>
<td>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.</td>
</tr>
</tbody>
</table>

**Protection of first-aiders**

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>SureSelect ILM PCR Primers</th>
<th>No action shall be taken involving any personal risk or without suitable training.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 3</td>
<td>SureSelect Block 2</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect Block 1</td>
<td>SureSelect Block 1</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>SureSelect PE Block 3</td>
<td>SureSelect PE Block 3</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

**Advice to doctor**

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>SureSelect ILM PCR Primers</th>
<th>No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 3</td>
<td>SureSelect Block 2</td>
<td>No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>SureSelect Block 1</td>
<td>SureSelect Block 1</td>
<td>No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>SureSelect PE Block 3</td>
<td>SureSelect PE Block 3</td>
<td>No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

**SureSelect Target Enrichment Kit - Paired End Module Box 2 - 16 Reactions, Part Number 931022**
5. Fire-fighting measures

**Extinguishing media**

**Suitable**

- SureSelect RNase Block: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect ILM PCR Primers: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect Hyb 3: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect Block 2: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect Block 1: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect PE Block 3: Use an extinguishing agent suitable for the surrounding fire.

**Not suitable**

- SureSelect RNase Block: None known.
- SureSelect ILM PCR Primers: None known.
- SureSelect Hyb 3: None known.
- SureSelect Block 2: None known.
- SureSelect Block 1: None known.
- SureSelect PE Block 3: None known.

**Special exposure hazards**

- SureSelect 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.
- SureSelect ILM PCR Primers: 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.
- SureSelect Hyb 3: 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.
- SureSelect Block 2: 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.
- SureSelect Block 1: 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.
- SureSelect PE Block 3: 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.

- SureSelect RNase Block: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect ILM PCR Primers: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect Hyb 3: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect Block 2: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect Block 1: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect PE Block 3: In a fire or if heated, a pressure increase will occur and the container may burst.
### 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>SureSelect RNase Block</th>
<th>Decomposition products may include the following materials: carbon dioxide, carbon monoxide.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect ILM PCR Primers</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect Hyb 3</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds.</td>
<td></td>
</tr>
<tr>
<td>SureSelect Block 2</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect Block 1</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect PE Block 3</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

| 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. |

### 6. Accidental release measures

<table>
<thead>
<tr>
<th>Personal precautions</th>
<th>SureSelect RNase Block</th>
<th>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 (see Section 8).</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect ILM PCR Primers</td>
<td>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 (see Section 8).</td>
<td></td>
</tr>
<tr>
<td>SureSelect Hyb 3</td>
<td>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 (see Section 8).</td>
<td></td>
</tr>
<tr>
<td>SureSelect Block 2</td>
<td>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 (see Section 8).</td>
<td></td>
</tr>
<tr>
<td>SureSelect Block 1</td>
<td>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 (see Section 8).</td>
<td></td>
</tr>
<tr>
<td>SureSelect PE Block 3</td>
<td>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 (see Section 8).</td>
<td></td>
</tr>
</tbody>
</table>
6. Accidental release measures

**Environmental precautions**: 
- **SureSelect 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).
- **SureSelect ILM PCR Primers**: 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).
- **SureSelect Hyb 3**: 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).
- **SureSelect Block 2**: 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).
- **SureSelect Block 1**: 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).
- **SureSelect PE Block 3**: 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 for cleaning up**: 
- **SureSelect 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.
- **SureSelect ILM PCR Primers**: 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.
- **SureSelect Hyb 3**: 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.
- **SureSelect Block 2**: 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.
- **SureSelect Block 1**: 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. **Accidental release measures**

- **SureSelect PE Block 3**
  - 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.

7. **Handling and storage**

### Handling

- **SureSelect RNase Block**
  - Put on appropriate personal protective equipment (see Section 8). 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.

- **SureSelect ILM PCR Primers**
  - Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before entering eating areas. Remove contaminated clothing and protective equipment before entering eating areas.

- **SureSelect Hyb 3**
  - Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before entering eating areas. Remove contaminated clothing and protective equipment before entering eating areas.

- **SureSelect Block 2**
  - Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before entering eating areas. Remove contaminated clothing and protective equipment before entering eating areas.

- **SureSelect Block 1**
  - Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before entering eating areas. Remove contaminated clothing and protective equipment before entering eating areas.

- **SureSelect PE Block 3**
  - Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before entering eating areas. Remove contaminated clothing and protective equipment before entering eating areas.
## 7. Handling and storage

<table>
<thead>
<tr>
<th></th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect RNase Block</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>SureSelect ILM PCR Primers</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>SureSelect Hyb 3</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>SureSelect Block 2</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>SureSelect Block 1</strong></td>
<td>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.</td>
</tr>
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<td>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.</td>
</tr>
</tbody>
</table>
7. Handling and storage

leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>Safe Work Australia (Australia, 4/2013). TWA: 10 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
</tbody>
</table>

No additional exposure standard allocated for other ingredients/components covered by the MSDS other than those listed in the table above.

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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Exposure controls

Engineering measures: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

Eyes: 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 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.

Hands: 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.

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin: 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.

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.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>SureSelect RNase Block</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect ILM PCR Primers</td>
<td>Liquid.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 3</td>
<td>Liquid.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Block 2</td>
<td>Liquid.</td>
</tr>
<tr>
<td></td>
<td>SureSelect Block 1</td>
<td>Liquid.</td>
</tr>
<tr>
<td></td>
<td>SureSelect PE Block 3</td>
<td>Liquid.</td>
</tr>
</tbody>
</table>
9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect RNase Block</th>
<th>SureSelect ILM PCR Primers</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect Block 2</th>
<th>SureSelect Block 1</th>
<th>SureSelect PE Block 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td>Not available.</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
</tr>
</tbody>
</table>
9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect RNase Block</th>
<th>SureSelect ILM PCR Primers</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect Block 2</th>
<th>SureSelect Block 1</th>
<th>SureSelect PE Block 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not available.</td>
<td>Not available.</td>
<td>7 to 8</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td>SureSelect RNase Block</td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td>Eas...</td>
<td>Eas...</td>
<td>Eas...</td>
<td>Eas...</td>
</tr>
<tr>
<td></td>
<td>SureSelect ILM PCR Primers</td>
<td>Easily soluble in the followi...</td>
<td>Eas...</td>
<td>Eas...</td>
<td>Eas...</td>
<td>Eas...</td>
</tr>
<tr>
<td></td>
<td>SureSelect Hyb 3</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is sta...</td>
<td>The product is stab...</td>
<td>The product is stab...</td>
</tr>
<tr>
<td></td>
<td>SureSelect Block 2</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is sta...</td>
<td>The product is stab...</td>
<td>The product is stab...</td>
</tr>
<tr>
<td></td>
<td>SureSelect Block 1</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is sta...</td>
<td>The product is stab...</td>
<td>The product is stab...</td>
</tr>
<tr>
<td></td>
<td>SureSelect PE Block 3</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is sta...</td>
<td>The product is stab...</td>
<td>The product is stab...</td>
</tr>
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</table>

10. Stability and reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>SureSelect RNase Block</th>
<th>SureSelect ILM PCR Primers</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect Block 2</th>
<th>SureSelect Block 1</th>
<th>SureSelect PE Block 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is sta...</td>
<td>The product is stab...</td>
<td>The product is stab...</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>
<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>
</tbody>
</table>
10. Stability and reactivity

**Conditions to avoid**
- SureSelect RNase Block: No specific data.
- SureSelect ILM PCR Primers: No specific data.
- SureSelect Hyb 3: No specific data.
- SureSelect Block 2: No specific data.
- SureSelect Block 1: No specific data.
- SureSelect PE Block 3: No specific data.

**Materials to avoid**
- SureSelect RNase Block: No specific data.
- SureSelect ILM PCR Primers: No specific data.
- SureSelect Hyb 3: No specific data.
- SureSelect Block 2: No specific data.
- SureSelect Block 1: No specific data.
- SureSelect PE Block 3: No specific data.

**Hazardous decomposition products**
- SureSelect RNase Block: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect ILM PCR Primers: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect Hyb 3: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect Block 2: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect Block 1: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect PE Block 3: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

**Potential acute health effects**

**Inhalation**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect ILM PCR Primers: No known significant effects or critical hazards.
- SureSelect Hyb 3: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- SureSelect Block 2: No known significant effects or critical hazards.
- SureSelect Block 1: No known significant effects or critical hazards.
- SureSelect PE Block 3: No known significant effects or critical hazards.

**Ingestion**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect ILM PCR Primers: No known significant effects or critical hazards.
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect Block 2: No known significant effects or critical hazards.
- SureSelect Block 1: No known significant effects or critical hazards.
- SureSelect PE Block 3: No known significant effects or critical hazards.

**Skin contact**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect ILM PCR Primers: No known significant effects or critical hazards.
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect Block 2: No known significant effects or critical hazards.
- SureSelect Block 1: No known significant effects or critical hazards.
- SureSelect PE Block 3: No known significant effects or critical hazards.

**Eye contact**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect ILM PCR Primers: No known significant effects or critical hazards.
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect Block 2: No known significant effects or critical hazards.
- SureSelect Block 1: No known significant effects or critical hazards.
- SureSelect PE Block 3: No known significant effects or critical hazards.

**Acute toxicity**
11. Toxicological information

Potential chronic health effects

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Over-exposure signs/symptoms

SureSelect RNase Block

Glycerol

LD50 Oral

Rat

12600 mg/kg

Conclusion/Summary: Not available.

SureSelect ILM PCR Primers

No known significant effects or critical hazards.

SureSelect Hyb 3

No known significant effects or critical hazards.

SureSelect Block 2

No known significant effects or critical hazards.

SureSelect Block 1

No known significant effects or critical hazards.

SureSelect PE Block 3

No known significant effects or critical hazards.

SureSelect RNase Block

No known significant effects or critical hazards.

SureSelect ILM PCR Primers

No known significant effects or critical hazards.

SureSelect Hyb 3

No known significant effects or critical hazards.

SureSelect Block 2

No known significant effects or critical hazards.

SureSelect Block 1

No known significant effects or critical hazards.

SureSelect PE Block 3

No known significant effects or critical hazards.

SureSelect PE Block 3

No known significant effects or critical hazards.

SureSelect RNase Block

Glycerol

Eyes - Mild irritant

Rabbit

24 hours 500 milligrams

Skin - Mild irritant

Rabbit

24 hours 500 milligrams

Conclusion/Summary: Not available.

Sensitiser

Conclusion/Summary: Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Chronic effects

SureSelect RNase Block

No known significant effects or critical hazards.

SureSelect ILM PCR Primers

No known significant effects or critical hazards.

SureSelect Hyb 3

No known significant effects or critical hazards.

SureSelect Block 2

No known significant effects or critical hazards.

SureSelect Block 1

No known significant effects or critical hazards.

SureSelect PE Block 3

No known significant effects or critical hazards.

SureSelect RNase Block

Glycerol

Eyes - Mild irritant

Rabbit

24 hours 500 milligrams

Skin - Mild irritant

Rabbit

24 hours 500 milligrams

Conclusion/Summary: Not available.

Sensitiser

Conclusion/Summary: Not available.

Irritation/Corrosion

SureSelect RNase Block

Glycerol

Eyes - Mild irritant

Rabbit

24 hours 500 milligrams

Skin - Mild irritant

Rabbit

24 hours 500 milligrams

Conclusion/Summary: Not available.

Irritation/Corrosion

SureSelect RNase Block

Glycerol

Eyes - Mild irritant

Rabbit

24 hours 500 milligrams

Skin - Mild irritant

Rabbit

24 hours 500 milligrams

Conclusion/Summary: Not available.

Sensitiser

Conclusion/Summary: Not available.

Irritation/Corrosion

SureSelect RNase Block

Glycerol

Eyes - Mild irritant

Rabbit

24 hours 500 milligrams

Skin - Mild irritant

Rabbit

24 hours 500 milligrams

Conclusion/Summary: Not available.
11. Toxicological information

**Inhalation**
- SureSelect RNase Block: No specific data.
- SureSelect ILM PCR Primers: No specific data.
- SureSelect Hyb 3: No specific data.
- SureSelect Block 2: No specific data.
- SureSelect Block 1: No specific data.
- SureSelect PE Block 3: No specific data.

**Ingestion**
- SureSelect RNase Block: No specific data.
- SureSelect ILM PCR Primers: No specific data.
- SureSelect Hyb 3: No specific data.
- SureSelect Block 2: No specific data.
- SureSelect Block 1: No specific data.
- SureSelect PE Block 3: No specific data.

**Skin**
- SureSelect RNase Block: No specific data.
- SureSelect ILM PCR Primers: No specific data.
- SureSelect Hyb 3: No specific data.
- SureSelect Block 2: No specific data.
- SureSelect Block 1: No specific data.
- SureSelect PE Block 3: No specific data.

**Eyes**
- SureSelect RNase Block: No specific data.
- SureSelect ILM PCR Primers: No specific data.
- SureSelect Hyb 3: No specific data.
- SureSelect Block 2: No specific data.
- SureSelect Block 1: No specific data.
- SureSelect PE Block 3: No specific data.

**Other adverse symptoms**
- SureSelect RNase Block: Not available.
- SureSelect ILM PCR Primers: Not available.
- SureSelect Hyb 3: Not available.
- SureSelect Block 2: Not available.
- SureSelect Block 1: Not available.
- SureSelect PE Block 3: Not available.

**Target organs**
- SureSelect RNase Block: Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
- SureSelect ILM PCR Primers: Not available.
- SureSelect Hyb 3: Not available.
- SureSelect Block 2: Not available.
- SureSelect Block 1: Not available.
- SureSelect PE Block 3: Not available.

12. Ecological information

**Ecotoxicity**
- May cause long-term adverse effects in the aquatic environment.

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Log(P_{ow})</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

**Other ecological information**
- Log\(P_{ow}\): -1.76; BCF: -
- Potential: low

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

13. Disposal considerations

**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. 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
13. Disposal considerations

retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

Regulatory information

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

15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Control of Scheduled Carcinogenic Substances

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>No listed substance</td>
<td></td>
</tr>
</tbody>
</table>

Australia inventory (AICS) : Not determined.

16. Other information

Remarks : 

Date of issue : 13/05/2014

Date of previous issue : 29/05/2012.

* Indicates information that has changed from previously issued version.

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