
SAFETY DATA SHEET
Early Access OneSeq Phased Exome Target Enrichment Box 2, Part Number 5190-9657

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

1.1 Product identifier

**Product name**: Early Access OneSeq Phased Exome Target Enrichment Box 2, Part Number 5190-9657

**Part no. (chemical kit)**: 5190-9657

**Part no.**
- SureSelect Hyb 3 5190-4382
- SureSelect RNase Block 5190-4383
- OneSeq Phased Exome Blocker Mix 5190-9656

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

**Material uses**: Analytical reagent.
- SureSelect Hyb 3 0.16 ml
- SureSelect RNase Block 0.016 ml
- OneSeq Phased Exome Blocker Mix 0.144 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS: pdl-msds_author@agilent.com

1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)**: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

**Product definition**
- SureSelect Hyb 3 Mixture
- SureSelect RNase Block Mixture
- OneSeq Phased Exome Blocker Mix Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

**Ingredients of unknown toxicity**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 3</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%</td>
</tr>
</tbody>
</table>

**Ingredients of unknown ecotoxicity**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 3</td>
<td></td>
</tr>
</tbody>
</table>

See Section 16 for the full text of the H statements declared above.

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## SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

<table>
<thead>
<tr>
<th>Signal word</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>No signal word.</td>
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<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
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<tbody>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
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</table>

<table>
<thead>
<tr>
<th>Precautionary statements</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Prevention</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>Not applicable.</td>
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<table>
<thead>
<tr>
<th>Response</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
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<tbody>
<tr>
<td></td>
<td>Not applicable.</td>
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<td>Not applicable.</td>
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<table>
<thead>
<tr>
<th>Storage</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disposal</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supplemental label elements</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 3</td>
</tr>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### 2.3 Other hazards

<table>
<thead>
<tr>
<th>Other hazards which do not result in classification</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None known.</td>
<td>None known.</td>
<td>None known.</td>
</tr>
</tbody>
</table>
SECTION 3: Composition/information on ingredients

3.1 Substances

SureSelect Hyb 3
SureSelect RNase Block
OneSeq Phased Exome Blocker Mix

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>REACH #: Annex V EC: 200-289-5 CAS: 56-81-5</td>
<td>≥50 - ≤75</td>
<td>Not classified.</td>
<td>[2]</td>
</tr>
</tbody>
</table>

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

SureSelect Hyb 3
SureSelect RNase Block
OneSeq Phased Exome Blocker Mix

Inhalation

SureSelect Hyb 3
SureSelect RNase Block
OneSeq Phased Exome Blocker Mix

Skin contact

SureSelect Hyb 3
SureSelect RNase Block
OneSeq Phased Exome Blocker Mix

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SECTION 4: First aid measures

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Protection of first-aiders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect Hyb 3</strong></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. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td><strong>SureSelect RNase Block</strong></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. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td><strong>OneSeq Phased Exome Blocker Mix</strong></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. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**

- **Eye contact**: No known significant effects or critical hazards.
- **Inhalation**: No known significant effects or critical hazards.
- **Skin contact**: No known significant effects or critical hazards.
- **Ingestion**: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- **Eye contact**: No specific data.
- **Inhalation**: No specific data.
- **Skin contact**: No specific data.
# SECTION 4: First aid measures

## Ingestion

<table>
<thead>
<tr>
<th>Substance</th>
<th>Notes to physician</th>
<th>Specific treatments</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Hyb 3</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect RNase Block</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

## 4.3 Indication of any immediate medical attention and special treatment needed

### Notes to physician

- SureSelect Hyb 3: 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 RNase Block: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- OneSeq Phased Exome Blocker Mix: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### Specific treatments

- SureSelect Hyb 3: No specific treatment.
- SureSelect RNase Block: No specific treatment.
- OneSeq Phased Exome Blocker Mix: No specific treatment.

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media

### Suitable extinguishing media

- SureSelect Hyb 3: Use an extinguishing agent suitable for the surrounding fire.
- SureSelect RNase Block: Use an extinguishing agent suitable for the surrounding fire.
- OneSeq Phased Exome Blocker Mix: Use an extinguishing agent suitable for the surrounding fire.

### Unsuitable extinguishing media

- SureSelect Hyb 3: None known.
- SureSelect RNase Block: None known.
- OneSeq Phased Exome Blocker Mix: None known.

## 5.2 Special hazards arising from the substance or mixture

### Hazards from the substance or mixture

- SureSelect Hyb 3: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect RNase Block: In a fire or if heated, a pressure increase will occur and the container may burst.
- OneSeq Phased Exome Blocker Mix: In a fire or if heated, a pressure increase will occur and the container may burst.

### Hazardous combustion products

- SureSelect Hyb 3: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - nitrogen oxides
  - sulfur oxides
  - halogenated compounds
  - carbonyl halides

- SureSelect RNase Block: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide

- OneSeq Phased Exome Blocker Mix: No specific data.

## 5.3 Advice for firefighters

### Special precautions for fire-fighters

- 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 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.
- OneSeq Phased Exome: 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.
## SECTION 5: Firefighting measures

<table>
<thead>
<tr>
<th>Special protective equipment for firefighters</th>
<th>SureSelect Hyb 3</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</td>
<td></td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</td>
<td></td>
</tr>
</tbody>
</table>

## SECTION 6: Accidental release measures

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

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>SureSelect Hyb 3</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 spill material. Put on appropriate personal protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</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 spill material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</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 spill material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For emergency responders</th>
<th>SureSelect Hyb 3</th>
<th>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 &quot;For non-emergency personnel&quot;.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
<td></td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
<td></td>
</tr>
</tbody>
</table>

### 6.2 Environmental precautions

<table>
<thead>
<tr>
<th>SureSelect Hyb 3</th>
<th>Avoid dispersal of spill 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).</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>Avoid dispersal of spill 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).</td>
</tr>
<tr>
<td>OneSeq Phased Exome</td>
<td>Avoid dispersal of spill 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).</td>
</tr>
</tbody>
</table>
SECTION 6: Accidental release measures

Blocker Mix

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

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:
- **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 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.
- **OneSeq Phased Exome Blocker Mix**: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

- See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

**Protective measures**
- **SureSelect Hyb 3**: Put on appropriate personal protective equipment (see Section 8).
- **SureSelect RNase Block**: Put on appropriate personal protective equipment (see Section 8).
- **OneSeq Phased Exome Blocker Mix**: Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene**
- SureSelect Hyb 3: 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.
- SureSelect RNase Block: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- OneSeq Phased Exome Blocker Mix: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

**Storage**

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SECTION 7: Handling and storage

SureSelect Hyb 3
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.

SureSelect RNase Block
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. 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.

OneSeq Phased Exome Blocker Mix
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)
Recommendations:

SureSelect Hyb 3
Industrial applications, Professional applications.

SureSelect RNase Block
Industrial applications, Professional applications.

OneSeq Phased Exome Blocker Mix
Industrial applications, Professional applications.

Industrial sector specific solutions:

SureSelect Hyb 3
Not applicable.

SureSelect RNase Block
Not applicable.

OneSeq Phased Exome Blocker Mix
Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m³ 8 hours. Form: Mist</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures:
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace...
SECTION 8: Exposure controls/personal protection

atmospheres - General requirements for the performance of procedures for the measurement of chemical agents. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs
No DNELs/DMELs available.

PNECs
No PNECs available

8.2 Exposure controls

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

Individual protection measures

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

Skin protection

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
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<td>Not available.</td>
<td>Not available.</td>
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</table>

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## SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Odour</strong></td>
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<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
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<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>7</td>
<td>7.6</td>
<td>7.5</td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td>0°C</td>
<td>Not available.</td>
<td>0°C</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>100°C</td>
<td>Not available.</td>
<td>100°C</td>
</tr>
<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 applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive 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>
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<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
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<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 22/11/2018
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect Hyb 3</th>
<th>SureSelect RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
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#### 9.2 Other information

No additional information.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

| SureSelect Hyb 3         | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect RNase Block   | No specific test data related to reactivity available for this product or its ingredients. |
| OneSeq Phased Exome Blocker Mix | No specific test data related to reactivity available for this product or its ingredients. |

#### 10.2 Chemical stability

| SureSelect Hyb 3         | The product is stable. |
| SureSelect RNase Block   | The product is stable.  |
| OneSeq Phased Exome Blocker Mix | The product is stable.  |

SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions
- SureSelect Hyb 3: Under normal conditions of storage and use, hazardous reactions will not occur.
- SureSelect RNase Block: Under normal conditions of storage and use, hazardous reactions will not occur.
- OneSeq Phased Exome Blocker Mix: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
- SureSelect Hyb 3: No specific data.
- SureSelect RNase Block: No specific data.
- OneSeq Phased Exome Blocker Mix: No specific data.

10.5 Incompatible materials
- SureSelect Hyb 3: May react or be incompatible with oxidising materials.
- SureSelect RNase Block: May react or be incompatible with oxidising materials.
- OneSeq Phased Exome Blocker Mix: May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products
- SureSelect Hyb 3: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect RNase Block: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- OneSeq Phased Exome Blocker Mix: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
- Not available.

Irritation/Corrosion
- Conclusion/Summary: Not available.

Sensitiser
- Conclusion/Summary: Not available.

Mutagenicity
- Conclusion/Summary: Not available.

Carcinogenicity
- Conclusion/Summary: Not available.

Reproductive toxicity
- Conclusion/Summary: Not available.

Teratogenicity
- Conclusion/Summary: Not available.

Information on likely routes of exposure
- SureSelect Hyb 3: Routes of entry anticipated: Oral, Dermal, Inhalation.
- SureSelect RNase Block: Routes of entry anticipated: Oral, Dermal, Inhalation.
- OneSeq Phased Exome Blocker Mix: Routes of entry anticipated: Oral, Dermal, Inhalation.
- Not available.

Potential acute health effects

Inhalation
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

Ingestion
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Skin contact:
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

Eye contact:
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

Potential chronic health effects

Inhalation:
- SureSelect Hyb 3: No specific data.
- SureSelect RNase Block: No specific data.
- OneSeq Phased Exome Blocker Mix: No specific data.

Ingestion:
- SureSelect Hyb 3: No specific data.
- SureSelect RNase Block: No specific data.
- OneSeq Phased Exome Blocker Mix: No specific data.

Skin contact:
- SureSelect Hyb 3: No specific data.
- SureSelect RNase Block: No specific data.
- OneSeq Phased Exome Blocker Mix: No specific data.

Eye contact:
- SureSelect Hyb 3: No specific data.
- SureSelect RNase Block: No specific data.
- OneSeq Phased Exome Blocker Mix: No specific data.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:
- SureSelect Hyb 3: No specific data.
- SureSelect RNase Block: No specific data.
- OneSeq Phased Exome Blocker Mix: No specific data.

Ingestion:
- SureSelect Hyb 3: No specific data.
- SureSelect RNase Block: No specific data.
- OneSeq Phased Exome Blocker Mix: No specific data.

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

Short term exposure
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

Long term exposure
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

Potential chronic health effects

General:
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

Carcinogenicity:
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

Mutagenicity:
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

Teratogenicity:
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Developmental effects:
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

Fertility effects:
- SureSelect Hyb 3: No known significant effects or critical hazards.
- SureSelect RNase Block: No known significant effects or critical hazards.
- OneSeq Phased Exome Blocker Mix: No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity
- Conclusion/Summary: Not available.

12.2 Persistence and degradability
- Not available.

12.3 Bioaccumulative potential
- Not available.

12.4 Mobility in soil
- Soil/water partition coefficient ($K_{OC}$): Not available.
- Mobility: Not available.

12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
- Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

- Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging
- Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

- Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not available.

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market, and use of certain dangerous substances, mixtures and articles

SureSelect Hyb 3 Not applicable.
SureSelect RNase Block Not applicable.
OneSeq Phased Exome Blocker Mix Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : All components are listed or exempted.
Europe : All components are listed or exempted.

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SECTION 15: Regulatory information

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments might still be required.

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

Malaysia: Not determined.
New Zealand: Not determined.
Philippines: Not determined.
Republic of Korea: Not determined.
Taiwan: All components are listed or exempted.
Thailand: Not determined.
Turkey: Not determined.
United States: All components are listed or exempted.
Viet Nam: Not determined.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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Full text of abbreviated H statements
Not applicable.

Full text of classifications [CLP/GHS]
Not applicable.

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Date of previous issue: 06/10/2016
Version: 2

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