SAFETY DATA SHEET

OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660

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

1.1 Product identifier

Product name: OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660

Part No. (Kit): 5190-9660

Part No.

<table>
<thead>
<tr>
<th>Product definition</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 3</td>
<td>0.16 ml</td>
</tr>
<tr>
<td>OneSeq RNase Block</td>
<td>0.016 ml</td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
<td>0.144 ml</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Identified uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical reagent.</td>
</tr>
<tr>
<td>OneSeq Hyb 3</td>
</tr>
<tr>
<td>OneSeq RNase Block</td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>OneSeq Hyb 3</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq RNase Block</td>
<td>Mixture</td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.

Ingredients of unknown toxicity

Ingredients of unknown ecotoxicity

Not classified.

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Date of issue/Date of revision: 20/10/2016
SECTION 2: Hazards identification

Signal word:
- OneSeq Hyb 3: No signal word.
- OneSeq RNase Block: No signal word.
- OneSeq Phased Exome Blocker Mix: No signal word.

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

Precautionary statements:

Prevention:
- OneSeq Hyb 3: Not applicable.
- OneSeq RNase Block: Not applicable.
- OneSeq Phased Exome Blocker Mix: Not applicable.

Response:
- OneSeq Hyb 3: Not applicable.
- OneSeq RNase Block: Not applicable.
- OneSeq Phased Exome Blocker Mix: Not applicable.

Storage:
- OneSeq Hyb 3: Not applicable.
- OneSeq RNase Block: Not applicable.
- OneSeq Phased Exome Blocker Mix: Not applicable.

Disposal:
- OneSeq Hyb 3: Not applicable.
- OneSeq RNase Block: Not applicable.
- OneSeq Phased Exome Blocker Mix: Not applicable.

Supplemental label elements:
- OneSeq Hyb 3: Not applicable.
- OneSeq RNase Block: Not applicable.
- OneSeq Phased Exome Blocker Mix: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:
- OneSeq Hyb 3: Not applicable.
- OneSeq RNase Block: Not applicable.
- OneSeq Phased Exome Blocker Mix: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification:
- OneSeq Hyb 3: None known.
- OneSeq RNase Block: None known.
- OneSeq Phased Exome Blocker Mix: None known.

SECTION 3: Composition/information on ingredients

<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>OneSeq RNase Block</td>
<td>EC: 200-289-5 CAS: 56-81-5</td>
<td>≥50 - ≤75</td>
<td>Not classified.</td>
<td>[2]</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 20/10/2016
SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

**Eye contact**
- **OneSeq Hyb 3**: 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.
- **OneSeq RNase Block**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- **OneSeq Phased Exome Blocker Mix**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation**
- **OneSeq 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.
- **OneSeq RNase Block**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **OneSeq Phased Exome Blocker Mix**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**
- **OneSeq Hyb 3**: Immediately flush eyes with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **OneSeq RNase Block**: Immediately flush eyes with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **OneSeq Phased Exome Blocker Mix**: Immediately flush eyes with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**
- **OneSeq Hyb 3**: 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.
- **OneSeq RNase Block**: 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.
- **OneSeq Phased Exome Blocker Mix**: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Protection of first-aiders**
- **OneSeq Hyb 3**: No action shall be taken involving any personal risk or without suitable training.
- **OneSeq RNase Block**: No action shall be taken involving any personal risk or without suitable training.
- **OneSeq Phased Exome Blocker Mix**: No action shall be taken involving any personal risk or without suitable training.

Date of issue/Date of revision: 20/10/2016
SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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

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

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

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

Over-exposure signs/symptoms

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

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

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

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

4.3 Indication of any immediate medical attention and special treatment needed

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

Specific treatments
: OneSeq Hyb 3
OneSeq RNase Block
OneSeq Phased Exome Blocker Mix
No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
: OneSeq Hyb 3
OneSeq RNase Block
OneSeq Phased Exome Blocker Mix
Use an extinguishing agent suitable for the surrounding fire.
SECTION 5: Firefighting measures

Unsuitable extinguishing media:

- OneSeq Hyb 3
- OneSeq RNase Block
- OneSeq Phased Exome Blocker Mix

None known.

5.2 Special hazards arising from the substance or mixture

- OneSeq Hyb 3
- OneSeq RNase Block
- OneSeq Phased Exome Blocker Mix

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products:

- OneSeq Hyb 3
- OneSeq RNase Block
- OneSeq Phased Exome Blocker Mix

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

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

5.3 Advice for firefighters

Special precautions for fire-fighters:

- OneSeq Hyb 3
- OneSeq RNase Block
- OneSeq Phased Exome Blocker Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:

- OneSeq Hyb 3
- OneSeq RNase Block
- OneSeq Phased Exome Blocker Mix

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

**OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660**

## SECTION 6: Accidental release measures

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

<table>
<thead>
<tr>
<th>For emergency responders</th>
<th>:</th>
<th>OneSeq Hyb 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq RNase Block</td>
<td></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.</td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
<td></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.</td>
</tr>
</tbody>
</table>

### 6.2 Environmental precautions

| : | OneSeq Hyb 3 |
|-----------------------------|--|-------------|
| OneSeq 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). |
| OneSeq Phased Exome Blocker Mix |   | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

### 6.3 Methods and material for containment and cleaning up

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>:</th>
<th>OneSeq Hyb 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq RNase Block</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

### 6.4 Reference to other sections

| : | See Section 1 for emergency contact information. |
|-----------------------------|--|-------------|
| OneSeq RNase Block          |   | See Section 8 for information on appropriate personal protective equipment. |
| OneSeq Phased Exome Blocker Mix |   | See Section 13 for additional waste treatment information. |

**Date of issue/Date of revision**: 20/10/2016
**SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

**Protective measures**

- **OneSeq Hyb 3**: Put on appropriate personal protective equipment (see Section 8).
- **OneSeq 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**

- **OneSeq 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.

- **OneSeq 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**

- **OneSeq 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.

- **OneSeq RNase Block**: 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.

- **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.

### 7.3 Specific end use(s)

**Recommendations**

- **OneSeq Hyb 3**: Industrial applications, Professional applications.
- **OneSeq RNase Block**: Industrial applications, Professional applications.
- **OneSeq Phased Exome Blocker Mix**: Industrial applications, Professional applications.
OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660

SECTION 7: Handling and storage

Industrial sector specific solutions:
- OneSeq Hyb 3
- OneSeq RNase Block
- 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>OneSeq RNase Block Glycerol</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011).</td>
</tr>
<tr>
<td></td>
<td>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 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.

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SECTION 8: Exposure controls/personal protection

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

**Appearance**

| Physical state | OneSeq Hyb 3 | Liquid. |
| OneSeq RNase Block | Liquid. |
| OneSeq Phased | Liquid. |
| Exome Blocker Mix | |

| Colour | OneSeq Hyb 3 | Not available. |
| OneSeq RNase Block | Not available. |
| OneSeq Phased | Not available. |
| Exome Blocker Mix | |

| Odour | OneSeq Hyb 3 | Not available. |
| OneSeq RNase Block | Not available. |
| OneSeq Phased | Not available. |
| Exome Blocker Mix | |

| Odour threshold | OneSeq Hyb 3 | Not available. |
| OneSeq RNase Block | Not available. |
| OneSeq Phased | Not available. |
| Exome Blocker Mix | |

| pH | OneSeq Hyb 3 | 7 |
| OneSeq RNase Block | 7.6 |
| OneSeq Phased | 7.5 |
| Exome Blocker Mix | |

| Melting point/freezing point | OneSeq Hyb 3 | 0°C |
| OneSeq RNase Block | Not available. |
| OneSeq Phased | 0°C |
| Exome Blocker Mix | |

| Initial boiling point and boiling range | OneSeq Hyb 3 | 100°C |
| OneSeq RNase Block | Not available. |
| OneSeq Phased | 100°C |
| Exome Blocker Mix | |

| Flash point | OneSeq Hyb 3 | Not available. |
| OneSeq RNase Block | Not available. |
| OneSeq Phased | Not available. |
| Exome Blocker Mix | |

| Evaporation rate | OneSeq Hyb 3 | Not available. |
| OneSeq RNase Block | Not available. |
| OneSeq Phased | Not available. |
| Exome Blocker Mix | |

| Flammability (solid, gas) | OneSeq Hyb 3 | Not applicable. |
| OneSeq RNase Block | Not applicable. |
| OneSeq Phased | Not applicable. |
| Exome Blocker Mix | |

| Upper/lower flammability or explosive limits | OneSeq Hyb 3 | Not available. |
| OneSeq RNase Block | Not available. |
| OneSeq Phased | Not available. |
| Exome Blocker Mix | |
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>OneSeq Hyb 3</th>
<th>OneSeq RNase Block</th>
<th>OneSeq Phased Exome Blocker Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Easily 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 and hot water.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<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>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

9.2 Other information

No additional information.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

<table>
<thead>
<tr>
<th>Product</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 3</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>OneSeq RNase Block</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
</tbody>
</table>

#### 10.2 Chemical stability

<table>
<thead>
<tr>
<th>Product</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 3</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>OneSeq RNase Block</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>OneSeq Phased Exome Blocker Mix</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 20/10/2016
SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions
- **OneSeq Hyb 3**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **OneSeq 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
- **OneSeq Hyb 3**: No specific data.
- **OneSeq RNase Block**: No specific data.
- **OneSeq Phased Exome Blocker Mix**: No specific data.

10.5 Incompatible materials
- **OneSeq Hyb 3**: May react or be incompatible with oxidising materials.
- **OneSeq 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
- **OneSeq Hyb 3**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **OneSeq 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.

**Information on likely routes of exposure**
- Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

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

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

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

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

**Symptoms related to the physical, chemical and toxicological characteristics**

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

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SECTION 11: Toxicological information

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

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

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

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

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

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

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

#### Fertility effects
- **OneSeq Hyb 3**: No known significant effects or critical hazards.
- **OneSeq 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.

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SECTION 12: Ecological information

12.3 Bioaccumulative potential
Not available.

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

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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

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

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

SECTION 14: Transport information

Regulatory 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
Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed.

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SECTION 15: Regulatory information

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

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

### Other EU regulations

- **Europe inventory**
  - All components are listed or exempted.

- **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.

### International lists

- **National inventory**
  - **Australia**: Not determined.
  - **Canada**: Not determined.
  - **China**: All components are listed or exempted.
  - **Japan**:
    - **Japan inventory (ENCS)**: Not determined.
    - **Japan inventory (ISHL)**: All components are listed or exempted.
  - **Malaysia**: Not determined.
  - **New Zealand**: Not determined.
  - **Philippines**: Not determined.
  - **Republic of Korea**: Not determined.
  - **Taiwan**: All components are listed or exempted.
  - **Turkey**: Not determined.
  - **United States**: All components are listed or exempted.

### 15.2 Chemical safety assessment

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

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**Date of issue/Date of revision**: 20/10/2016
SECTION 16: Other information

Includes 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]**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td></td>
</tr>
</tbody>
</table>

**Full text of abbreviated H statements**
Not applicable.

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

Date of issue/Date of revision: 20/10/2016

Date of previous issue: No previous validation.

Version: 1

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