SAFETY DATA SHEET
OneSeq Phased Exome Target Enrichment Box 1, 16 reactions, Part Number 5190-9550

Section 1. Identification

Product identifier : OneSeq Phased Exome Target Enrichment Box 1, 16 reactions, Part Number 5190-9550
Part no. (chemical kit) : 5190-9550
Part no. : OneSeq Hyb 1 5190-9544
OneSeq Hyb 2 5190-9545
OneSeq Hyb 4 5190-9546
OneSeq Binding Buffer 5190-9547
OneSeq Wash Buffer 1 5190-9548
OneSeq Wash Buffer 2 5190-9549

Relevant identified uses of the substance or mixture and uses advised against
Material uses : Analytical reagent.
OneSeq Hyb 1 0.4 ml
OneSeq Hyb 2 1.25 ml
OneSeq Hyb 4 1.25 ml
OneSeq Binding Buffer 13.2 ml
OneSeq Wash Buffer 1 8 ml
OneSeq Wash Buffer 2 24 ml

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

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

Section 2. Hazard(s) identification

Classification of the substance or mixture
OneSeq Hyb 1
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

OneSeq Hyb 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

GHS label elements
Hazard pictograms : OneSeq Hyb 1


### Section 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Hazard statements</th>
<th>Precautionary statements</th>
<th>Storage</th>
<th>Disposal</th>
<th>Supplemental label elements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal word</strong></td>
<td>OneSeq Hyb 1 WARNING</td>
<td>Prevention:</td>
<td>OneSeq Hyb 1 P280 - Wear eye or face protection.</td>
<td>OneSeq Hyb 1 Not applicable.</td>
<td>Additional warning phrases:</td>
</tr>
<tr>
<td></td>
<td>OneSeq Hyb 2 WARNING</td>
<td></td>
<td>OneSeq Hyb 2 P280 - Wear eye or face protection.</td>
<td>OneSeq Hyb 2 Not applicable.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OneSeq Hyb 4 No signal word.</td>
<td></td>
<td>OneSeq Hyb 4 Not applicable.</td>
<td>OneSeq Hyb 4 Not applicable.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OneSeq Binding Buffer No signal word.</td>
<td></td>
<td>OneSeq Binding Buffer Not applicable.</td>
<td>OneSeq Binding Buffer Not applicable.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OneSeq Wash Buffer 1 No signal word.</td>
<td></td>
<td>OneSeq Wash Buffer 1 Not applicable.</td>
<td>OneSeq Wash Buffer 1 Not applicable.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OneSeq Wash Buffer 2 No signal word.</td>
<td></td>
<td>OneSeq Wash Buffer 2 Not applicable.</td>
<td>OneSeq Wash Buffer 2 Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

**Hazard statements**:
- OneSeq Hyb 1 H319 - Causes serious eye irritation.
- OneSeq Hyb 2 H319 - Causes serious eye irritation.
- OneSeq Hyb 4 No known significant effects or critical hazards.
- OneSeq Binding Buffer No known significant effects or critical hazards.
- OneSeq Wash Buffer 1 No known significant effects or critical hazards.
- OneSeq Wash Buffer 2 No known significant effects or critical hazards.

**Precautionary statements**:
- Prevention:
  - OneSeq Hyb 1 P280 - Wear eye or face protection.
  - OneSeq Hyb 2 P280 - Wear eye or face protection.
  - OneSeq Hyb 4 Not applicable.
  - OneSeq Binding Buffer Not applicable.
  - OneSeq Wash Buffer 1 Not applicable.
  - OneSeq Wash Buffer 2 Not applicable.

**Response**:
- OneSeq Hyb 1 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
- OneSeq Hyb 2 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
- OneSeq Hyb 4 Not applicable.
- OneSeq Binding Buffer Not applicable.
- OneSeq Wash Buffer 1 Not applicable.
- OneSeq Wash Buffer 2 Not applicable.

**Storage**:
- OneSeq Hyb 1 Not applicable.
- OneSeq Hyb 2 Not applicable.
- OneSeq Hyb 4 Not applicable.
- OneSeq Binding Buffer Not applicable.
- OneSeq Wash Buffer 1 Not applicable.
- OneSeq Wash Buffer 2 Not applicable.

**Disposal**:
- OneSeq Hyb 1 Not applicable.
- OneSeq Hyb 2 Not applicable.
- OneSeq Hyb 4 Not applicable.
- OneSeq Binding Buffer Not applicable.
- OneSeq Wash Buffer 1 Not applicable.
- OneSeq Wash Buffer 2 Not applicable.

**Supplemental label elements**:
- Additional warning phrases:
  - OneSeq Hyb 1 Not applicable.
  - OneSeq Hyb 2 Not applicable.
  - OneSeq Hyb 4 Not applicable.
  - OneSeq Binding Buffer Not applicable.
  - OneSeq Wash Buffer 1 Not applicable.
  - OneSeq Wash Buffer 2 Not applicable.

**Other hazards which do not result in classification**:
- OneSeq Hyb 1 None known.
- OneSeq Hyb 2 None known.
- OneSeq Hyb 4 None known.
- OneSeq Binding Buffer None known.
- OneSeq Wash Buffer 1 None known.
- OneSeq Wash Buffer 2 None known.
Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OneSeq Hyb 1</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>OneSeq Hyb 2</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>OneSeq Hyb 4</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>OneSeq Binding Buffer</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>OneSeq Wash Buffer 1</td>
<td>Mixture</td>
</tr>
<tr>
<td></td>
<td>OneSeq Wash Buffer 2</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

CAS number/other identifiers

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>≥10 - ≤30</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>≥10 - &lt;25</td>
<td>60-00-4</td>
</tr>
<tr>
<td>Edetic acid</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Description of necessary first aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids, Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids, Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</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>OneSeq Binding Buffer</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>OneSeq Wash Buffer 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>OneSeq Wash Buffer 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>
</tbody>
</table>

Inhalation

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Description of necessary first aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

OneSeq Hyb 4
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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

OneSeq Wash Buffer 1
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

OneSeq Wash Buffer 2
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 1
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

OneSeq Hyb 2
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

OneSeq Wash Buffer 1
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

OneSeq Wash Buffer 2
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: OneSeq Hyb 1
Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

OneSeq Hyb 2
Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting.
Section 4. First aid measures

unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

OneSeq Hyb 4
Wash out mouth with water. 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 Binding Buffer
Wash out mouth with water. 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 Wash Buffer 1
Wash out mouth with water. 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 Wash Buffer 2
Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

**Eye contact**
- OneSeq Hyb 1: Causes serious eye irritation.
- OneSeq Hyb 2: Causes serious eye irritation.
- OneSeq Hyb 4: No known significant effects or critical hazards.
- OneSeq Binding Buffer: No known significant effects or critical hazards.
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

**Inhalation**
- OneSeq Hyb 1: No known significant effects or critical hazards.
- OneSeq Hyb 2: No known significant effects or critical hazards.
- OneSeq Hyb 4: No known significant effects or critical hazards.
- OneSeq Binding Buffer: No known significant effects or critical hazards.
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

**Skin contact**
- OneSeq Hyb 1: No known significant effects or critical hazards.
- OneSeq Hyb 2: No known significant effects or critical hazards.
- OneSeq Hyb 4: No known significant effects or critical hazards.
- OneSeq Binding Buffer: No known significant effects or critical hazards.
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

**Ingestion**
- OneSeq Hyb 1: No known significant effects or critical hazards.
- OneSeq Hyb 2: No known significant effects or critical hazards.
- OneSeq Hyb 4: No known significant effects or critical hazards.
- OneSeq Binding Buffer: No known significant effects or critical hazards.
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**
Section 4. First aid measures

**Eye contact**: OneSeq Hyb 1
Adverse symptoms may include the following:
pain or irritation
watering
redness

OneSeq Hyb 2
Adverse symptoms may include the following:
pain or irritation
watering
redness

OneSeq Hyb 4
No specific data.
OneSeq Binding Buffer
No specific data.
OneSeq Wash Buffer 1
No specific data.
OneSeq Wash Buffer 2
No specific data.

**Inhalation**: OneSeq Hyb 1
No specific data.
OneSeq Hyb 2
No specific data.
OneSeq Hyb 4
No specific data.
OneSeq Binding Buffer
No specific data.
OneSeq Wash Buffer 1
No specific data.
OneSeq Wash Buffer 2
No specific data.

**Skin contact**: OneSeq Hyb 1
No specific data.
OneSeq Hyb 2
No specific data.
OneSeq Hyb 4
No specific data.
OneSeq Binding Buffer
No specific data.
OneSeq Wash Buffer 1
No specific data.
OneSeq Wash Buffer 2
No specific data.

**Ingestion**: OneSeq Hyb 1
No specific data.
OneSeq Hyb 2
No specific data.
OneSeq Hyb 4
No specific data.
OneSeq Binding Buffer
No specific data.
OneSeq Wash Buffer 1
No specific data.
OneSeq Wash Buffer 2
No specific data.

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

**Notes to physician**: OneSeq Hyb 1
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

OneSeq Hyb 2
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 Hyb 4
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

OneSeq Binding Buffer
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

OneSeq Wash Buffer 1
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

OneSeq Wash Buffer 2
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**: OneSeq Hyb 1
No specific treatment.
OneSeq Hyb 2
No specific treatment.
OneSeq Hyb 4
No specific treatment.
OneSeq Binding Buffer
No specific treatment.
OneSeq Wash Buffer 1
No specific treatment.
OneSeq Wash Buffer 2
No specific treatment.
Section 4. First aid measures

Protection of first-aiders:  
- OneSeq Hyb 1: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- OneSeq Hyb 2: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- OneSeq Hyb 4: No action shall be taken involving any personal risk or without suitable training.
- OneSeq Binding Buffer: No action shall be taken involving any personal risk or without suitable training.
- OneSeq Wash Buffer 1: No action shall be taken involving any personal risk or without suitable training.
- OneSeq Wash Buffer 2: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media:  
- Suitable extinguishing media:  
  - OneSeq Hyb 1: Use an extinguishing agent suitable for the surrounding fire.
  - OneSeq Hyb 2: Use an extinguishing agent suitable for the surrounding fire.
  - OneSeq Hyb 4: Use an extinguishing agent suitable for the surrounding fire.
  - OneSeq Binding Buffer: Use an extinguishing agent suitable for the surrounding fire.
  - OneSeq Wash Buffer 1: Use an extinguishing agent suitable for the surrounding fire.
  - OneSeq Wash Buffer 2: Use an extinguishing agent suitable for the surrounding fire.

- Unsuitable extinguishing media:  
  - OneSeq Hyb 1: None known.
  - OneSeq Hyb 2: None known.
  - OneSeq Hyb 4: None known.
  - OneSeq Binding Buffer: None known.
  - OneSeq Wash Buffer 1: None known.
  - OneSeq Wash Buffer 2: None known.

Specific hazards arising from the chemical:  
- OneSeq Hyb 1: In a fire or if heated, a pressure increase will occur and the container may burst.
- OneSeq Hyb 2: In a fire or if heated, a pressure increase will occur and the container may burst.
- OneSeq Hyb 4: In a fire or if heated, a pressure increase will occur and the container may burst.
- OneSeq Binding Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.
- OneSeq Wash Buffer 1: In a fire or if heated, a pressure increase will occur and the container may burst.
- OneSeq Wash Buffer 2: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:  
- OneSeq Hyb 1: Decomposition products may include the following materials: phosphorus oxides, halogenated compounds, metal oxide/oxides.
- OneSeq Hyb 2: Decomposition products may include the following materials: carbon dioxide, carbon monoxide.
Section 5. Firefighting measures

Special protective actions for fire-fighters:

- **OneSeq Hyb 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.
- **OneSeq Hyb 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.
- **OneSeq Hyb 4**
  - 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 Binding Buffer**
  - 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 Wash Buffer 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.
- **OneSeq Wash Buffer 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.

Special protective equipment for fire-fighters:

- **OneSeq Hyb 1**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- **OneSeq Hyb 2**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- **OneSeq Hyb 4**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- **OneSeq Binding Buffer**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- **OneSeq Wash Buffer 1**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- **OneSeq Wash Buffer 2**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Decomposition products may include the following materials:
- halogenated compounds
- metal oxide/oxides
- nitrogen oxides
- decomposition products may include the following materials:
- halogenated compounds
- metal oxide/oxides
- nitrogen oxides
## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

<table>
<thead>
<tr>
<th>Product</th>
<th>Procedure Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 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 spill material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>OneSeq Hyb 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 spill material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</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>
</tr>
<tr>
<td>OneSeq Binding Buffer</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>
</tr>
<tr>
<td>OneSeq Wash Buffer 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 spill material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 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 spill material. Put on appropriate personal protective equipment.</td>
</tr>
</tbody>
</table>

**For emergency responders**

<table>
<thead>
<tr>
<th>Product</th>
<th>Procedure Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</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>
</tr>
<tr>
<td>OneSeq Hyb 2</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>
</tr>
<tr>
<td>OneSeq Hyb 4</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>
</tr>
<tr>
<td>OneSeq Binding Buffer</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>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</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>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</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>
</tr>
</tbody>
</table>
## Section 6. Accidental release measures

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

<table>
<thead>
<tr>
<th>Environmental precautions</th>
<th>OneSeq Hyb 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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).</td>
</tr>
</tbody>
</table>

| OneSeq Hyb 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). |

| OneSeq Hyb 4                   | 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 Binding Buffer          | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

| OneSeq Wash Buffer 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). |

| OneSeq Wash Buffer 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). |

### Methods and material for containment and cleaning up

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>OneSeq Hyb 1</th>
</tr>
</thead>
<tbody>
<tr>
<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>

| OneSeq Hyb 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. |

| OneSeq Hyb 4                   | 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 Binding Buffer          | 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 Wash Buffer 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. |
Section 6. Accidental release measures

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 Wash Buffer 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

OneSeq Hyb 1
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

OneSeq Hyb 2
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

OneSeq Hyb 4
Put on appropriate personal protective equipment (see Section 8).

OneSeq Binding Buffer
Put on appropriate personal protective equipment (see Section 8).

OneSeq Wash Buffer 1
Put on appropriate personal protective equipment (see Section 8).

OneSeq Wash Buffer 2
Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

OneSeq Hyb 1
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 Hyb 2
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 Hyb 4
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 Binding Buffer
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove...
Section 7. Handling and storage

OneSeq Wash Buffer 1

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

OneSeq Hyb 1

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.

OneSeq Hyb 2

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.

OneSeq Hyb 4

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.

OneSeq Binding Buffer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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 Wash Buffer 1

Store in accordance with local regulations. Store in
Section 7. Handling and storage

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 Wash Buffer 2

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

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits
None.

Appropriate engineering controls

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

Individual protection measures

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

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

Skin protection

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

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

Other skin protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
## Section 8. Exposure controls and 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.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

**Physical state**
- OneSeq Hyb 1: Liquid.
- OneSeq Hyb 2: Liquid.
- OneSeq Hyb 4: Liquid.
- OneSeq Binding Buffer: Liquid.
- OneSeq Wash Buffer 1: Liquid.
- OneSeq Wash Buffer 2: Liquid.

**Colour**: Not available.

**Odour**: Not available.

**Odour threshold**: Not available.

**pH**: OneSeq Hyb 1: 7.4

<table>
<thead>
<tr>
<th>Product</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 2</td>
<td>8</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td></td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>7.5</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>7</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>7</td>
</tr>
</tbody>
</table>

**Melting point/freezing point**: Not available.

**Boiling point, initial boiling point, and boiling range**: Not available.

**Flash point**: Not available.
Section 9. Physical and chemical properties and safety characteristics

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapour Pressure at 20°C</th>
<th>Vapour pressure at 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td>OneSeq Hyb 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Edetic acid</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Edetic acid</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>≤0.0013501</td>
<td>≤0.00018</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties and safety characteristics

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>°C</th>
<th>°F</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 2</td>
<td>&gt;400</td>
<td>&gt;752</td>
<td>VDI 2263</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>310.5</td>
<td>590.9</td>
<td>VDI 2263</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>&gt;400</td>
<td>&gt;752</td>
<td>VDI 2263</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>310.5</td>
<td>590.9</td>
<td>VDI 2263</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>310.5</td>
<td>590.9</td>
<td>VDI 2263</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Hyb 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Date of previous issue: 22/05/2019
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Relative vapour density:
- OneSeq Hyb 1: Not available.
- OneSeq Hyb 2: Not available.
- OneSeq Hyb 4: Not available.
- OneSeq Binding Buffer: Not available.
- OneSeq Wash Buffer 1: Not available.
- OneSeq Wash Buffer 2: Not available.

Relative density:
- OneSeq Hyb 1: Not available.
- OneSeq Hyb 2: Not available.
- OneSeq Hyb 4: Not available.
- OneSeq Binding Buffer: Not available.
- OneSeq Wash Buffer 1: Not available.
- OneSeq Wash Buffer 2: Not available.

Solubility:
- OneSeq Hyb 1: Soluble in the following materials: cold water and hot water.
- OneSeq Hyb 2: Soluble in the following materials: cold water and hot water.
- OneSeq Hyb 4: Easily soluble in the following materials: cold water and hot water.
- OneSeq Binding Buffer: Soluble in the following materials: cold water and hot water.
- OneSeq Wash Buffer 1: Easily soluble in the following materials: cold water and hot water.
- OneSeq Wash Buffer 2: Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water:
- OneSeq Hyb 1: Not applicable.
- OneSeq Hyb 2: Not applicable.
- OneSeq Hyb 4: Not applicable.
- OneSeq Binding Buffer: Not applicable.
- OneSeq Wash Buffer 1: Not applicable.
- OneSeq Wash Buffer 2: Not applicable.
Section 9. Physical and chemical properties and safety characteristics

<table>
<thead>
<tr>
<th>Sodium dodecyl sulphate</th>
<th>310.5</th>
<th>590.9</th>
<th>VDI 2263</th>
</tr>
</thead>
</table>

**Decomposition temperature**
- OneSeq Hyb 1: Not available.
- OneSeq Hyb 2: Not available.
- OneSeq Hyb 4: Not available.
- OneSeq Binding Buffer: Not available.
- OneSeq Wash Buffer 1: Not available.
- OneSeq Wash Buffer 2: Not available.

**Viscosity**
- OneSeq Hyb 1: Not available.
- OneSeq Hyb 2: Not available.
- OneSeq Hyb 4: Not available.
- OneSeq Binding Buffer: Not available.
- OneSeq Wash Buffer 1: Not available.
- OneSeq Wash Buffer 2: Not available.

**Particle characteristics**

**Median particle size**
- OneSeq Hyb 1: Not applicable.
- OneSeq Hyb 2: Not applicable.
- OneSeq Hyb 4: Not applicable.
- OneSeq Binding Buffer: Not applicable.
- OneSeq Wash Buffer 1: Not applicable.
- OneSeq Wash Buffer 2: Not applicable.

Section 10. Stability and reactivity

**Reactivity**
- OneSeq Hyb 1: No specific test data related to reactivity available for this product or its ingredients.
- OneSeq Hyb 2: No specific test data related to reactivity available for this product or its ingredients.
- OneSeq Hyb 4: No specific test data related to reactivity available for this product or its ingredients.
- OneSeq Binding Buffer: No specific test data related to reactivity available for this product or its ingredients.
- OneSeq Wash Buffer 1: No specific test data related to reactivity available for this product or its ingredients.
- OneSeq Wash Buffer 2: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**
- OneSeq Hyb 1: The product is stable.
- OneSeq Hyb 2: The product is stable.
- OneSeq Hyb 4: The product is stable.
- OneSeq Binding Buffer: The product is stable.
- OneSeq Wash Buffer 1: The product is stable.
- OneSeq Wash Buffer 2: The product is stable.

**Possibility of hazardous reactions**
- OneSeq Hyb 1: Under normal conditions of storage and use, hazardous reactions will not occur.
- OneSeq Hyb 2: Under normal conditions of storage and use, hazardous reactions will not occur.
- OneSeq Hyb 4: Under normal conditions of storage and use, hazardous reactions will not occur.
- OneSeq Binding Buffer: Under normal conditions of storage and use, hazardous reactions will not occur.
- OneSeq Wash Buffer 1: Under normal conditions of storage and use, hazardous reactions will not occur.
- OneSeq Wash Buffer 2: Under normal conditions of storage and use, hazardous reactions will not occur.
Section 10. Stability and reactivity

Conditions to avoid:
- OneSeq Hyb 1: No specific data.
- OneSeq Hyb 2: No specific data.
- OneSeq Hyb 4: No specific data.
- OneSeq Binding Buffer: No specific data.
- OneSeq Wash Buffer 1: No specific data.
- OneSeq Wash Buffer 2: No specific data.

Incompatible materials:
- OneSeq Hyb 1: May react or be incompatible with oxidising materials.
- OneSeq Hyb 2: May react or be incompatible with oxidising materials.
- OneSeq Hyb 4: May react or be incompatible with oxidising materials.
- OneSeq Binding Buffer: May react or be incompatible with oxidising materials.
- OneSeq Wash Buffer 1: May react or be incompatible with oxidising materials.
- OneSeq Wash Buffer 2: May react or be incompatible with oxidising materials.

Hazardous decomposition products:
- OneSeq Hyb 1: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- OneSeq Hyb 2: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- OneSeq Hyb 4: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- OneSeq Binding Buffer: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- OneSeq Wash Buffer 1: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- OneSeq Wash Buffer 2: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 Sodium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 Sodium chloride</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 mg</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitisation
Not available.

Mutagenicity
- Conclusion/Summary: Not available.

Carcinogenicity
- Conclusion/Summary: Not available.

Reproductive toxicity
- Conclusion/Summary: Not available.
Section 11. Toxicological information

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Product</th>
<th>Routes of entry anticipated</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>Not available.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Potential acute health effects

Eye contact

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Inhalation

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Skin contact

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Ingestion

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>No specific data.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>No specific data.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

### Inhalation
- OneSeq Hyb 1: No specific data.
- OneSeq Hyb 2: No specific data.
- OneSeq Hyb 4: No specific data.
- OneSeq Binding Buffer: No specific data.
- OneSeq Wash Buffer 1: No specific data.
- OneSeq Wash Buffer 2: No specific data.

### Skin contact
- OneSeq Hyb 1: No specific data.
- OneSeq Hyb 2: No specific data.
- OneSeq Hyb 4: No specific data.
- OneSeq Binding Buffer: No specific data.
- OneSeq Wash Buffer 1: No specific data.
- OneSeq Wash Buffer 2: No specific data.

### Ingestion
- OneSeq Hyb 1: No specific data.
- OneSeq Hyb 2: No specific data.
- OneSeq Hyb 4: No specific data.
- OneSeq Binding Buffer: No specific data.
- OneSeq Wash Buffer 1: No specific data.
- OneSeq Wash Buffer 2: No specific data.

### General
- OneSeq Hyb 1: No known significant effects or critical hazards.
- OneSeq Hyb 2: No known significant effects or critical hazards.
- OneSeq Hyb 4: No known significant effects or critical hazards.
- OneSeq Binding Buffer: No known significant effects or critical hazards.
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

### Carcinogenicity
- OneSeq Hyb 1: No known significant effects or critical hazards.
- OneSeq Hyb 2: No known significant effects or critical hazards.
- OneSeq Hyb 4: No known significant effects or critical hazards.
- OneSeq Binding Buffer: No known significant effects or critical hazards.
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

### Mutagenicity
- OneSeq Hyb 1: No known significant effects or critical hazards.
- OneSeq Hyb 2: No known significant effects or critical hazards.
- OneSeq Hyb 4: No known significant effects or critical hazards.
- OneSeq Binding Buffer: No known significant effects or critical hazards.
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

### Reproductive toxicity
- OneSeq Hyb 1: No known significant effects or critical hazards.
- OneSeq Hyb 2: No known significant effects or critical hazards.
- OneSeq Hyb 4: No known significant effects or critical hazards.
- OneSeq Binding Buffer: No known significant effects or critical hazards.
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

### Potential chronic health effects

### Numerical measures of toxicity

#### Acute toxicity estimates
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>3000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 12. Ecological information

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
<td>96 hours</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>Crustaceans - Cypris subglobosa</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute IC50 6.87 g/L Fresh water</td>
<td>Aquatic plants - Lemma minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1000000 μg/l Fresh water</td>
<td>Fish - Morone saxatilis - Larvae</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic LC10 781 mg/l Fresh water</td>
<td>Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatching, Weanling)</td>
<td>3 weeks</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>Aquatic plants - Lemma minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.314 g/L Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100 mg/l Fresh water</td>
<td>Fish - Gambusia holbrooki - Adult</td>
<td>8 weeks</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Acute EC50 113000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td>Edetic acid</td>
<td>Acute LC50 41000 μg/l Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 2</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
<tr>
<td>Edetic acid</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 2</td>
<td>-3.86</td>
<td>1.8</td>
<td>low</td>
</tr>
<tr>
<td>Edetic acid</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mobility in soil**

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

**Other adverse effects**

- No known significant effects or critical hazards.
Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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

Special precautions for user: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Transport in bulk according to IMO instruments: Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons
Not regulated.

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

International regulations
   Chemical Weapon Convention List Schedules I, II & III Chemicals
   Not listed.
   Montreal Protocol
   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: All components are listed or exempted.
   Canada: All components are listed or exempted.
   China: All components are listed or exempted.
   Europe: All components are listed or exempted.
   Japan: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
   New Zealand: All components are listed or exempted.
   Philippines: All components are listed or exempted.
   Republic of Korea: All components are listed or exempted.
   Taiwan: All components are listed or exempted.
   Thailand: Not determined.

Date of issue/Date of revision: 30/09/2021
Date of previous issue: 22/05/2019
Version: 3
Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Country</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turkey</td>
<td>Not determined.</td>
</tr>
<tr>
<td>United States</td>
<td>All components are active or exempted.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>All components are listed or exempted.</td>
</tr>
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</table>

Section 16. Any other relevant information

<table>
<thead>
<tr>
<th>History</th>
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<tbody>
<tr>
<td>Date of issue</td>
<td>30/09/2021</td>
</tr>
<tr>
<td>Date of revision</td>
<td></td>
</tr>
<tr>
<td>Date of previous issue</td>
<td>22/05/2019</td>
</tr>
<tr>
<td>Version</td>
<td>3</td>
</tr>
<tr>
<td>Key to abbreviations</td>
<td>ADG = Australian Dangerous Goods</td>
</tr>
<tr>
<td></td>
<td>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td></td>
<td>ATE = Acute Toxicity Estimate</td>
</tr>
<tr>
<td></td>
<td>BCF = Bioconcentration Factor</td>
</tr>
<tr>
<td></td>
<td>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</td>
</tr>
<tr>
<td></td>
<td>IATA = International Air Transport Association</td>
</tr>
<tr>
<td></td>
<td>IBC = Intermediate Bulk Container</td>
</tr>
<tr>
<td></td>
<td>IMDG = International Maritime Dangerous Goods</td>
</tr>
<tr>
<td></td>
<td>LogPow = logarithm of the octanol/water partition coefficient</td>
</tr>
<tr>
<td></td>
<td>N/A = Not available</td>
</tr>
<tr>
<td></td>
<td>SUSMP = Standard Uniform Schedule of Medicine and Poisons</td>
</tr>
<tr>
<td></td>
<td>UN = United Nations</td>
</tr>
</tbody>
</table>

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</td>
<td>Calculation method</td>
</tr>
<tr>
<td>OneSeq Hyb 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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