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

Material uses: Analytical reagent.

Material uses: 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, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

Emergency telephone number (with hours of operation): CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

OneSeq Hyb 1
H319 EYE IRRITATION - Category 2A

OneSeq Hyb 2
H319 EYE IRRITATION - Category 2A
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) - Category 2

GHS label elements

Hazard pictograms: OneSeq Hyb 1

OneSeq Hyb 2

Date of issue/Date of revision: 05/22/2019
Date of previous issue: 10/20/2016
Version: 2
Section 2. Hazard identification

**Signal word**
- OneSeq Hyb 1: Warning
- OneSeq Hyb 2: Warning
- OneSeq Hyb 4: No signal word.
- OneSeq Binding Buffer: No signal word.
- OneSeq Wash Buffer 1: No signal word.
- OneSeq Wash Buffer 2: No signal word.

**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: P260 - Do not breathe vapor.
- 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 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 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: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- OneSeq Hyb 4: Not applicable.
- OneSeq Binding Buffer: Not applicable.
- OneSeq Wash Buffer 1: Not applicable.
- OneSeq Wash Buffer 2: Not applicable.
Section 2. Hazard identification

Supplemental label elements:
- 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.

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/information on ingredients

Substance/mixture:
- OneSeq Hyb 1: Mixture
- OneSeq Hyb 2: Mixture
- OneSeq Hyb 4: Mixture
- OneSeq Binding Buffer: Mixture
- OneSeq Wash Buffer 1: Mixture
- OneSeq Wash Buffer 2: Mixture

Ingredient name | % (w/w) | CAS number
---|---|---
OneSeq Hyb 1
Sodium chloride | ≥10 - ≤25 | 7647-14-5
Sodium dihydrogenorthophosphate | ≤3 | 7558-80-7
OneSeq Hyb 2
Edetic acid | ≥10 - <25 | 60-00-4
OneSeq Hyb 4
Sodium dodecyl sulphate | <1 | 151-21-3
OneSeq Binding Buffer
Sodium chloride | <10 | 7647-14-5
OneSeq Wash Buffer 1
Sodium dodecyl sulphate | ≤0.3 | 151-21-3
OneSeq Wash Buffer 2
Sodium dodecyl sulphate | ≤0.3 | 151-21-3

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**
- **OneSeq Hyb 1**: 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.
- **OneSeq Hyb 2**: 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.
- **OneSeq Hyb 4**: 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 Binding Buffer**: 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 Wash Buffer 1**: 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 Wash Buffer 2**: 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 1**: 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.
- **OneSeq Hyb 2**: 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 following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- **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.
**Section 4. First-aid measures**

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OneSeq Hyb 1</strong></td>
<td><strong>OneSeq Hyb 1</strong></td>
</tr>
<tr>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
<td>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.</td>
</tr>
<tr>
<td><strong>OneSeq Hyb 2</strong></td>
<td><strong>OneSeq Hyb 2</strong></td>
</tr>
<tr>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.</td>
<td>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.</td>
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<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
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</table>
Section 4. First-aid measures

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 Binding Buffer
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 Wash Buffer 1
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 Wash Buffer 2
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Notes</th>
</tr>
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<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>
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**Inhalation**

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**Skin contact**

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</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

**Notes to physician**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Notes</th>
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<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>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.</td>
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<tr>
<td>OneSeq Hyb 4</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
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<td>OneSeq Binding Buffer</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
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**Specific treatments**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Notes</th>
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<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>
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. Fire-fighting 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.
## Section 5. Fire-fighting measures

### Hazardous thermal decomposition products

<table>
<thead>
<tr>
<th>Product</th>
<th>Decomposition products</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Decomposition products may include the following materials: phosphorus oxides, halogenated compounds, metal oxide/oxides</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>No specific data.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>Decomposition products may include the following materials: halogenated compounds, metal oxide/oxides</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>

### Special protective actions for fire-fighters

<table>
<thead>
<tr>
<th>Product</th>
<th>Special protective actions for fire-fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
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<tr>
<td>OneSeq Binding Buffer</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

### Special protective equipment for fire-fighters

<table>
<thead>
<tr>
<th>Product</th>
<th>Special protective actions for fire-fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
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<tr>
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<tr>
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<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>
Section 5. Fire-fighting measures

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

OneSeq Hyb 1
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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

OneSeq Hyb 2
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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

OneSeq Hyb 4
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 spilled material. Put on appropriate personal protective equipment.

OneSeq Binding Buffer
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

OneSeq Wash Buffer 1
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 spilled material. Put on appropriate personal protective equipment.

OneSeq Wash Buffer 2
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 spilled material. Put on appropriate personal protective equipment.
## Section 6. Accidental release measures

**For emergency responders**
- **OneSeq Hyb 1**: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **OneSeq Hyb 2**: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **OneSeq Hyb 4**: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **OneSeq Binding Buffer**: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **OneSeq Wash Buffer 1**: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **OneSeq Wash Buffer 2**: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**
- **OneSeq Hyb 1**: Avoid dispersal of spilled 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 2**: Avoid dispersal of spilled 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 spilled 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 spilled 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 spilled 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 spilled 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 materials for containment and cleaning up**

*Date of issue/Date of revision*: 05/22/2019  
*Date of previous issue*: 10/20/2016  
*Version*: 2
### Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>OneSeq Hyb 1</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OneSeq Hyb 2</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></td>
<td>OneSeq Hyb 4</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></td>
<td>OneSeq Binding Buffer</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></td>
<td>OneSeq Wash Buffer 1</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></td>
<td>OneSeq Wash Buffer 2</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>

### Section 7. Handling and storage

**Precautions for safe handling**

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>OneSeq Hyb 1</th>
<th>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OneSeq Hyb 2</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.</td>
</tr>
<tr>
<td></td>
<td>OneSeq Hyb 4</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td></td>
<td>OneSeq Binding Buffer</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>
Section 7. Handling and storage

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 contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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.

OneSeq Wash Buffer 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.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for...
Section 7. Handling and storage

OneSeq Hyb 2
incompatible materials before handling or use.
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 unlabeled
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 unlabeled
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 unlabeled
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
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 unlabeled
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 unlabeled
containers. Use appropriate containment to avoid
environmental contamination. See Section 10 for
incompatible materials before handling or use.
Section 8. Exposure controls/personal protection

Control parameters
Occupational exposure limits
None.

Appropriate engineering controls
Environmental exposure controls

- Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Ensure that users are trained in the proper use of respirators. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, the protection time of the gloves cannot be accurately estimated.

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

Body protection

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

Other skin protection

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

Respiratory protection

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

Section 9. Physical and chemical properties

Appearance

Physical state

- 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.
# Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>OneSeq Hyb 1</th>
<th>OneSeq Hyb 2</th>
<th>OneSeq Hyb 4</th>
<th>OneSeq Binding Buffer</th>
<th>OneSeq Wash Buffer 1</th>
<th>OneSeq Wash Buffer 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>7.4</td>
<td>8</td>
<td>Not available.</td>
<td>7.5</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>0°C (32°F)</td>
<td>Not available.</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>100°C (212°F)</td>
<td>Not available.</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

*Date of issue/Date of revision:* 05/22/2019  
*Date of previous issue:* 10/20/2016  
*Version:* 2
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>OneSeq Hyb 1</th>
<th>OneSeq Hyb 2</th>
<th>OneSeq Hyb 4</th>
<th>OneSeq Binding Buffer</th>
<th>OneSeq Wash Buffer 1</th>
<th>OneSeq Wash Buffer 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor pressure</td>
<td>OneSeq Hyb 1 Not available.</td>
<td>OneSeq Hyb 2 Not available.</td>
<td>OneSeq Hyb 4 Not available.</td>
<td>OneSeq Binding Buffer</td>
<td>OneSeq Wash Buffer 1</td>
<td>OneSeq Wash Buffer 2</td>
</tr>
<tr>
<td>Vapor density</td>
<td>OneSeq Hyb 1 Not available.</td>
<td>OneSeq Hyb 2 Not available.</td>
<td>OneSeq Hyb 4 Not available.</td>
<td>OneSeq Binding Buffer</td>
<td>OneSeq Wash Buffer 1</td>
<td>OneSeq Wash Buffer 2</td>
</tr>
<tr>
<td>Relative density</td>
<td>OneSeq Hyb 1 Not available.</td>
<td>OneSeq Hyb 2 Not available.</td>
<td>OneSeq Hyb 4 Not available.</td>
<td>OneSeq Binding Buffer</td>
<td>OneSeq Wash Buffer 1</td>
<td>OneSeq Wash Buffer 2</td>
</tr>
<tr>
<td>Solubility</td>
<td>OneSeq Hyb 1 Soluble in the following materials: cold water and hot water.</td>
<td>OneSeq Hyb 2 Soluble in the following materials: cold water and hot water.</td>
<td>OneSeq Hyb 4 Easily soluble in the following materials: cold water and hot water.</td>
<td>OneSeq Binding Buffer Soluble in the following materials: cold water and hot water.</td>
<td>OneSeq Wash Buffer 1 Easily soluble in the following materials: cold water and hot water.</td>
<td>OneSeq Wash Buffer 2 Easily soluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>OneSeq Hyb 1 Not available.</td>
<td>OneSeq Hyb 2 Not available.</td>
<td>OneSeq Hyb 4 Not available.</td>
<td>OneSeq Binding Buffer</td>
<td>OneSeq Wash Buffer 1</td>
<td>OneSeq Wash Buffer 2</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>OneSeq Hyb 1 Not available.</td>
<td>OneSeq Hyb 2 Not available.</td>
<td>OneSeq Hyb 4 Not available.</td>
<td>OneSeq Binding Buffer</td>
<td>OneSeq Wash Buffer 1</td>
<td>OneSeq Wash Buffer 2</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>OneSeq Hyb 1 Not available.</td>
<td>OneSeq Hyb 2 Not available.</td>
<td>OneSeq Hyb 4 Not available.</td>
<td>OneSeq Binding Buffer</td>
<td>OneSeq Wash Buffer 1</td>
<td>OneSeq Wash Buffer 2</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

### 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.

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.

### 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 oxidizing materials.
- OneSeq Hyb 2: May react or be incompatible with oxidizing materials.
- OneSeq Hyb 4: May react or be incompatible with oxidizing materials.
- OneSeq Binding Buffer: May react or be incompatible with oxidizing materials.
- OneSeq Wash Buffer 1: May react or be incompatible with oxidizing materials.
- OneSeq Wash Buffer 2: May react or be incompatible with oxidizing materials.
Section 10. Stability and reactivity

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</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>8290 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dihydrogenorthophosphate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 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</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dihydrogenorthophosphate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>150 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>250 Micrograms</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>
## Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Buffer Type</th>
<th>Component</th>
<th>Route</th>
<th>Species</th>
<th>Dose/Applied Quantity/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OneSeq Binding Buffer</strong></td>
<td>Sodium chloride</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>10 milligrams - 24 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Mild irritant</td>
<td>Guinea pig</td>
<td>- 25 milligrams - 24 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Mouse</td>
<td>- 24 hours 50 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>- 24 hours 50 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>- 24 hours 25 milligrams</td>
</tr>
<tr>
<td><strong>OneSeq Wash Buffer 1</strong></td>
<td>Sodium dodecyl sulphate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>- 250 Micrograms - 24 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>- 24 hours 100 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>- 10 milligrams - 24 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Guinea pig</td>
<td>- 24 hours 25 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>- 24 hours 50 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>- 24 hours 25 milligrams</td>
</tr>
<tr>
<td><strong>OneSeq Wash Buffer 2</strong></td>
<td>Sodium dodecyl sulphate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>- 250 Micrograms - 24 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>- 24 hours 100 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>- 10 milligrams - 24 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Mild irritant</td>
<td>Guinea pig</td>
<td>- 24 hours 25 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Mouse</td>
<td>- 24 hours 25 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>- 24 hours 50 milligrams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>- 24 hours 25 milligrams</td>
</tr>
</tbody>
</table>

**Sensitization**
Not available.

**Mutagenicity**

Conclusion/Summary: Not available.

**Carcinogenicity**

Conclusion/Summary: Not available.

**Reproductive toxicity**

Conclusion/Summary: Not available.

**Teratogenicity**

Conclusion/Summary: Not available.
### Section 11. Toxicological information

#### Conclusion/Summary
- Not available.

#### Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 4</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 2</td>
<td>Category 2</td>
<td>Not determined</td>
<td>kidneys</td>
</tr>
<tr>
<td>Edetic acid</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Aspiration hazard
- Not available.

#### Information on the likely routes of exposure

- OneSeq Hyb 1: Routes of entry anticipated: Oral, Dermal, Inhalation.
- OneSeq Hyb 2: Routes of entry anticipated: Oral, Dermal, Inhalation.
- OneSeq Hyb 4: Not available.
- OneSeq Binding Buffer: Not available.
- OneSeq Wash Buffer 1: Not available.
- OneSeq Wash Buffer 2: Not available.

#### 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.
Section 11. Toxicological information

**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.

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

**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.

**Delayed and immediate effects and also 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**
Section 11. Toxicological information

General:

- OneSeq Hyb 1: No known significant effects or critical hazards.
- OneSeq Hyb 2: May cause damage to organs through prolonged or repeated exposure.
- 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.

Teratogenicity:

- 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.

Developmental effects:

- 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.

Fertility effects:

- 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.

Numerical measures of toxicity

Acute toxicity estimates:

<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 (vapors) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Hyb 1</td>
<td>17142.9</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>3000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Sodium dihydrogenorthophosphate</td>
<td>8290</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>27397.3</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Edetic acid</td>
<td>4000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>1288</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 05/22/2019  Date of previous issue: 10/20/2016  Version: 2
### Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OneSeq Binding Buffer</strong></td>
<td>Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 402.6 mg/l Fresh water</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 1000000 µg/l Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic LC10 781 mg/l Fresh water</td>
<td>3 weeks</td>
</tr>
<tr>
<td><strong>OneSeq Wash Buffer 1</strong></td>
<td>Sodium dodecyl sulphate</td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 0.314 g/L Fresh water</td>
<td>21 days</td>
</tr>
<tr>
<td><strong>OneSeq Wash Buffer 2</strong></td>
<td>Sodium dodecyl sulphate</td>
<td>Acute LC50 720 ppm Fresh water</td>
<td>96 hours</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><strong>OneSeq Hyb 1</strong></td>
<td>Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 402.6 mg/l Fresh water</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 6.87 g/L Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 1000000 µg/l Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic LC10 781 mg/l Fresh water</td>
<td>3 weeks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 0.314 g/L Fresh water</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 720 ppm Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td><strong>OneSeq Hyb 2</strong></td>
<td>Edetic acid</td>
<td>Acute EC50 113000 µg/l Fresh water</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 41000 µg/l Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td><strong>OneSeq Hyb 4</strong></td>
<td>Sodium dodecyl sulphate</td>
<td>Acute EC50 1200 µg/l Marine water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 900 µg/l Marine water</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 1400 µg/l Fresh water</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 590 µg/l Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 1.25 mg/l Marine water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 1 mg/l Fresh water</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 3.2 mg/l Fresh water</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC &gt;1357 µg/l Fresh water</td>
<td>42 days</td>
</tr>
<tr>
<td><strong>OneSeq Binding Buffer</strong></td>
<td>Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 519.6 mg/l Fresh water</td>
<td>48 hours</td>
</tr>
</tbody>
</table>
## Section 12. Ecological information

### Product/ingredient name

<table>
<thead>
<tr>
<th>OneSeq Wash Buffer 1</th>
<th>Sodium dodecyl sulphate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute EC50 1200 µg/l Marine water</td>
<td>Algae - Skeletonema costatum</td>
</tr>
<tr>
<td>Acute LC50 900 µg/l Marine water</td>
<td>Crustaceans - Artemia salina - Adult</td>
</tr>
<tr>
<td>Acute LC50 1400 µg/l Fresh water</td>
<td>Daphnia - Daphnia pulex - Neonate</td>
</tr>
<tr>
<td>Acute LC50 590 µg/l Fresh water</td>
<td>Fish - Cirrhinus mrigala - Larvae</td>
</tr>
<tr>
<td>Chronic NOEC 1.25 mg/l Marine water</td>
<td>Algae - Ulva fasciata - Zoea</td>
</tr>
<tr>
<td>Chronic NOEC 1 mg/l Fresh water</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
</tr>
<tr>
<td>Chronic NOEC 3.2 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
</tr>
<tr>
<td>Chronic NOEC &gt;1357 µg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OneSeq Wash Buffer 2</th>
<th>Sodium dodecyl sulphate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute EC50 1200 µg/l Marine water</td>
<td>Algae - Skeletonema costatum</td>
</tr>
<tr>
<td>Acute LC50 900 µg/l Marine water</td>
<td>Crustaceans - Artemia salina - Adult</td>
</tr>
<tr>
<td>Acute LC50 1400 µg/l Fresh water</td>
<td>Daphnia - Daphnia pulex - Neonate</td>
</tr>
<tr>
<td>Acute LC50 590 µg/l Fresh water</td>
<td>Fish - Cirrhinus mrigala - Larvae</td>
</tr>
<tr>
<td>Chronic NOEC 1.25 mg/l Marine water</td>
<td>Algae - Ulva fasciata - Zoea</td>
</tr>
<tr>
<td>Chronic NOEC 1 mg/l Fresh water</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
</tr>
<tr>
<td>Chronic NOEC 3.2 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
</tr>
<tr>
<td>Chronic NOEC &gt;1357 µg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
</tr>
</tbody>
</table>

### Aquatic half-life

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 2 Edetic acid</td>
<td>48 hours</td>
</tr>
<tr>
<td>OneSeq Hyb 4 Sodium dodecyl sulphate</td>
<td>96 hours</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 Sodium dodecyl sulphate</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

### Photolysis

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

### Biodegradability

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

### Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP_{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 2 Edetic acid</td>
<td>-3.86</td>
<td>1.8</td>
<td>low</td>
</tr>
<tr>
<td>OneSeq Hyb 4 Sodium dodecyl sulphate</td>
<td>-2.03</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 Sodium dodecyl sulphate</td>
<td>-2.03</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>
Section 12. Ecological information

| OneSeq Wash Buffer 2 | Sodium dodecyl sulphate | -2.03 | - | low |

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

Section 14. Transport information

**TDG / IMDG / IATA** : Not regulated.

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

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

Section 15. Regulatory information

**Canadian lists**

- **Canadian NPRI** : None of the components are listed.
- **CEPA Toxic substances** : None of the components are listed.

**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.

**Date of issue/Date of revision** : 05/22/2019  
**Date of previous issue** : 10/20/2016  
**Version** : 2  
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Section 15. Regulatory information

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 (ENCS): 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.
Turkey: Not determined.
United States: All components are listed or exempted.
Viet Nam: Not determined.

Section 16. Other information

History
Date of issue/Date of revision: 05/22/2019
Date of previous issue: 10/20/2016
Version: 2

Key to abbreviations:
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HPR = Hazardous Products Regulations
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
N/A = Not available
UN = United Nations

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 EYE IRRITATION - Category 2A</td>
<td>Calculation method</td>
</tr>
<tr>
<td>OneSeq Hyb 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) - Category 2</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

References: Not available.

Indicates information that has changed from previously issued version.

Notice to reader
Section 16. Other information

Disclaimer: The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.