SAFETY DATA SHEET

OneSeq Phased Exome Target Enrichment Box 1, 96 reactions, Part Number 5190-9555

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

1.1 Product identifier

Product name: OneSeq Phased Exome Target Enrichment Box 1, 96 reactions, Part Number 5190-9555
Part no. (chemical kit): 5190-9555
Part no.:
- OneSeq Hyb 1: 5190-9551
- OneSeq Hyb 2: 5190-9545
- OneSeq Hyb 4: 5190-9546
- OneSeq Binding Buffer: 5190-9552
- OneSeq Wash Buffer 1: 5190-9553
- OneSeq Wash Buffer 2: 5190-9554

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

Material uses:
- Analytical reagent.
  - OneSeq Hyb 1: 2.4 ml
  - OneSeq Hyb 2: 1.25 ml
  - OneSeq Hyb 4: 1.25 ml
  - OneSeq Binding Buffer: 80 ml
  - OneSeq Wash Buffer 1: 48 ml
  - OneSeq Wash Buffer 2: 144 ml

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition:
- 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

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

OneSeq Hyb 1
H319
- SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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

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SECTION 2: Hazards identification

Ingredients of unknown toxicity:
- OneSeq Hyb 1: Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
- OneSeq Hyb 2: Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
- OneSeq Binding Buffer: Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
- OneSeq Wash Buffer 1: No known significant effects or critical hazards.
- OneSeq Wash Buffer 2: No known significant effects or critical hazards.

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

2.2 Label elements

Hazard pictograms:
- OneSeq Hyb 1
- OneSeq Hyb 2

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. P264 - Wash hands thoroughly after handling.
- OneSeq Hyb 2: P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
- 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.
- 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.
- 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.

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<table>
<thead>
<tr>
<th><strong>SECTION 2: Hazards identification</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disposal</strong></td>
</tr>
<tr>
<td>OneSeq Hyb 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 2 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 4 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2 &amp; Not applicable.</td>
</tr>
<tr>
<td><strong>Hazardous ingredients</strong></td>
</tr>
<tr>
<td>OneSeq Hyb 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 2 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer &amp; Not applicable.</td>
</tr>
<tr>
<td>Supplemental label elements</td>
</tr>
<tr>
<td>OneSeq Hyb 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 2 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 4 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer &amp; Safety data sheet available on request.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2 &amp; Not applicable.</td>
</tr>
<tr>
<td><strong>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</strong></td>
</tr>
<tr>
<td>OneSeq Hyb 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 2 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 4 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2 &amp; Not applicable.</td>
</tr>
<tr>
<td><strong>Special packaging requirements</strong></td>
</tr>
<tr>
<td>Tactile warning of danger</td>
</tr>
<tr>
<td>OneSeq Hyb 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 2 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Hyb 4 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 &amp; Not applicable.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2 &amp; Not applicable.</td>
</tr>
<tr>
<td><strong>2.3 Other hazards</strong></td>
</tr>
<tr>
<td>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</td>
</tr>
<tr>
<td>OneSeq Hyb 1 &amp; This mixture does not contain any substances that are assessed to be a PBT or a vPvB.</td>
</tr>
<tr>
<td>OneSeq Hyb 2 &amp; This mixture does not contain any substances that are assessed to be a PBT or a vPvB.</td>
</tr>
<tr>
<td>OneSeq Hyb 4 &amp; This mixture does not contain any substances that are assessed to be a PBT or a vPvB.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer &amp; This mixture does not contain any substances that are assessed to be a PBT or a vPvB.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 &amp; This mixture does not contain any substances that are assessed to be a PBT or a vPvB.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2 &amp; This mixture does not contain any substances that are assessed to be a PBT or a vPvB.</td>
</tr>
<tr>
<td><strong>Other hazards which do not result in classification</strong></td>
</tr>
<tr>
<td>OneSeq Hyb 1 &amp; None known.</td>
</tr>
<tr>
<td>OneSeq Hyb 2 &amp; None known.</td>
</tr>
<tr>
<td>OneSeq Hyb 4 &amp; None known.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer &amp; None known.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 &amp; None known.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2 &amp; None known.</td>
</tr>
</tbody>
</table>

**SECTION 3: Composition/information on ingredients**

<table>
<thead>
<tr>
<th><strong>3.1 Substances</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 &amp; Mixture</td>
</tr>
<tr>
<td>OneSeq Hyb 2 &amp; Mixture</td>
</tr>
<tr>
<td>OneSeq Hyb 4 &amp; Mixture</td>
</tr>
<tr>
<td>OneSeq Binding Buffer &amp; Mixture</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1 &amp; Mixture</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2 &amp; Mixture</td>
</tr>
</tbody>
</table>

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SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 Sodium chloride</td>
<td>EC: 231-598-3 CAS: 7647-14-5</td>
<td>≥10 - ≤25</td>
<td>Eye Irrit. 2, H319</td>
<td>[1]</td>
</tr>
<tr>
<td>OneSeq Binding Buffer Sodium chloride</td>
<td>EC: 231-598-3 CAS: 7647-14-5</td>
<td>&lt;10</td>
<td>Eye Irrit. 2, H319</td>
<td>[1]</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.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>OneSeq Hyb 1</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<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>
<td></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>
<td></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>
<td></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>
<td></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>
<td></td>
</tr>
</tbody>
</table>

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
SECTION 4: First aid measures

**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 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. 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.

**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 Hyb 4**
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

: **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. 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.

: **OneSeq Hyb 2**
Wash out mouth with water. Remove dentures if any.
SECTION 4: First aid measures

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.

OneSeq Hyb 4
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 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.

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.

4.2 Most important symptoms and effects, both 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.

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SECTION 4: First aid measures

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:

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.

4.3 Indication of any immediate medical attention and special treatment needed

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
**SECTION 4: First aid measures**

<table>
<thead>
<tr>
<th>Product</th>
<th>Specific treatments</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

**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 5: Firefighting measures**

**5.1 Extinguishing media**

<table>
<thead>
<tr>
<th>Product</th>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known.</td>
</tr>
<tr>
<td>OneSeq Hyb 2</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known.</td>
</tr>
<tr>
<td>OneSeq Hyb 4</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 1</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known.</td>
</tr>
<tr>
<td>OneSeq Wash Buffer 2</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known.</td>
</tr>
</tbody>
</table>

**5.2 Special hazards arising from the substance or mixture**

**Hazards from the substance or mixture**
- 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 combustion 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
  - nitrogen oxides
- OneSeq Hyb 4: No specific data.
- OneSeq Binding Buffer: Decomposition products may include the following materials:
  - halogenated compounds
  - metal oxide/oxides
- OneSeq Wash Buffer 1: No specific data.
- OneSeq Wash Buffer 2: No specific data.

**5.3 Advice for firefighters**

**Date of issue/Date of revision**: 22/05/2019
### SECTION 5: Firefighting measures

#### Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

- **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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

- **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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

- **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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

- **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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

- **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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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 spilt material. Avoid breathing vapour 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 spilt material. Avoid breathing vapour 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 spilt 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 spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.

For emergency responders:

OneSeq Hyb 1
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 "For non-emergency personnel".

OneSeq Hyb 2
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 "For non-emergency personnel".

OneSeq Hyb 4
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 "For non-emergency personnel".

OneSeq Binding Buffer
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 "For non-emergency personnel".

OneSeq Wash Buffer 1
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 "For non-emergency personnel".

OneSeq Wash Buffer 2
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 "For non-emergency personnel".
### SECTION 6: Accidental release measures

#### 6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Product</th>
<th>Advice</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1</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>
<tr>
<td>OneSeq Hyb 2</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>
<tr>
<td>OneSeq Hyb 4</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>
<tr>
<td>OneSeq Binding Buffer</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>
<tr>
<td>OneSeq Wash Buffer 1</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>
<tr>
<td>OneSeq Wash Buffer 2</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>

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

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

#### 6.4 Reference to other sections

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

**Date of issue/Date of revision**: 22/05/2019
SECTION 7: Handling and storage

7.1 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 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.
SECTION 7: Handling and storage

7.2 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 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 7: Handling and storage

7.3 Specific end use(s)
Recommendations:

- OneSeq Hyb 1: Industrial applications, Professional applications.
- OneSeq Hyb 2: Industrial applications, Professional applications.
- OneSeq Hyb 4: Industrial applications, Professional applications.
- OneSeq Binding Buffer: Industrial applications, Professional applications.
- OneSeq Wash Buffer 1: Industrial applications, Professional applications.
- OneSeq Wash Buffer 2: Industrial applications, Professional applications.

Industrial sector specific solutions:
- 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 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No exposure limit value known.

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

DNELs/DMELs

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
<th>Population</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 Sodium chloride</td>
<td>DNEL</td>
<td>Short term Oral</td>
<td>126.65 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Oral</td>
<td>126.65 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Dermal</td>
<td>126.65 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>126.65 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Dermal</td>
<td>295.52 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>295.52 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Inhalation</td>
<td>443.28 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>443.28 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Inhalation</td>
<td>2068.62 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>2068.62 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>OneSeq Hyb 2 Edetic acid</td>
<td>DNEL</td>
<td>Long term</td>
<td>0.6 mg/m³</td>
<td>General</td>
<td>Local</td>
</tr>
</tbody>
</table>

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### SECTION 8: Exposure controls/personal protection

<table>
<thead>
<tr>
<th></th>
<th>DNEL</th>
<th>Ingestion</th>
<th>Population</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OneSeq Binding Buffer</strong></td>
<td>Sodium chloride</td>
<td>Short term Inhalation</td>
<td>1.2 mg/m³</td>
<td>General population</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term Inhalation</td>
<td>1.5 mg/m³</td>
<td>Workers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short term Inhalation</td>
<td>3 mg/m³</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term Oral</td>
<td>25 mg/kg bw/day</td>
<td>General population</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td>Systemic</td>
</tr>
</tbody>
</table>

#### Individual protection measures

<table>
<thead>
<tr>
<th></th>
<th>DNEL</th>
<th>Ingestion</th>
<th>Population</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OneSeq Binding Buffer</strong></td>
<td>Sodium chloride</td>
<td>Short term Oral</td>
<td>126.65 mg/kg bw/day</td>
<td>General population</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term Oral</td>
<td>126.65 mg/kg bw/day</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short term Dermal</td>
<td>126.65 mg/kg bw/day</td>
<td>General population</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term Dermal</td>
<td>126.65 mg/kg bw/day</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short term Dermal</td>
<td>295.52 mg/kg bw/day</td>
<td>Workers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term Dermal</td>
<td>295.52 mg/kg bw/day</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short term Inhalation</td>
<td>443.28 mg/m³</td>
<td>General population</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term Inhalation</td>
<td>443.28 mg/m³</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short term Inhalation</td>
<td>2068.62 mg/m³</td>
<td>Workers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term Inhalation</td>
<td>2068.62 mg/m³</td>
<td>Systemic</td>
</tr>
</tbody>
</table>

#### PNECs

No PNECs available

### 8.2 Exposure controls

#### Appropriate engineering controls:

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

#### Individual protection measures

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

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

**Skin protection**

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

**Body protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
**SECTION 8: Exposure controls/personal protection**

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

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

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

**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

**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**

- 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.

**Odour**

- 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.

**Odour threshold**

- 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.

**pH**

- OneSeq Hyb 1: 7.4
- OneSeq Hyb 2: 8
- OneSeq Hyb 4: Not available.
- OneSeq Binding Buffer: 7.5
- OneSeq Wash Buffer 1: 7
- OneSeq Wash Buffer 2: 7

**Melting point/freezing point**

- OneSeq Hyb 1: Not available.
- OneSeq Hyb 2: Not available.
- OneSeq Hyb 4: 0°C
- OneSeq Binding Buffer: Not available.
- OneSeq Wash Buffer 1: 0°C
- OneSeq Wash Buffer 2: 0°C

**Initial boiling point and boiling range**

- OneSeq Hyb 1: Not available.
- OneSeq Hyb 2: Not available.
- OneSeq Hyb 4: 100°C
- OneSeq Binding Buffer: Not available.
- OneSeq Wash Buffer 1: 100°C
- OneSeq Wash Buffer 2: 100°C

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SECTION 9: Physical and chemical properties

**Flash point**
- 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.

**Evaporation rate**
- 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.

**Flammability (solid, gas)**
- 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.

**Upper/lower flammability or explosive limits**
- 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.

**Vapour pressure**
- 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.

**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(ies)**
- 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.
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>
</table>

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

<table>
<thead>
<tr>
<th>Reactivity</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>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

10.2 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.

10.3 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.

10.4 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.

10.5 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.

10.6 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

11.1 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>
<tr>
<td>OneSeq Binding Buffer Sodium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Acute toxicity estimates

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SECTION 11: Toxicological information

### 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>Sodium chloride</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>OneSeq Binding Buffer</td>
<td>Sodium chloride</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

### Toxicity

#### Sensitiser
- **Conclusion/Summary**: Not available.

#### Mutagenicity
- **Conclusion/Summary**: Not available.

#### Carcinogenicity
- **Conclusion/Summary**: Not available.

#### Reproductive toxicity
- **Conclusion/Summary**: Not available.

#### Teratogenicity
- **Conclusion/Summary**: Not available.

#### Information on likely routes of exposure
- **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
- **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.
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.

**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.

**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.

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

**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.

**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.

**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.

**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.

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

**Short term exposure**

- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

**Long term exposure**
SECTION 11: Toxicological information

Potential immediate effects: Not available.
Potential delayed effects: Not available.
Potential chronic health effects:

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.

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.

SECTION 12: Ecological information

12.1 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 Sodium chloride</td>
<td>Acute EC50 4.74 g/L Fresh water</td>
<td>Algae - Chlamydomonas reinhardtii</td>
<td>96 hours</td>
</tr>
<tr>
<td></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 EC50 402.6 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute IC50 6.87 g/L Fresh water</td>
<td>Aquatic plants - Lemna 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, Hatchling, Weaning)</td>
<td>3 weeks</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 6 g/L Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

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SECTION 12: Ecological information

<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 Edetic acid</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability
Not available.

12.3 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 Edetic acid</td>
<td>-3.86</td>
<td>1.8</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

<table>
<thead>
<tr>
<th>Soil/water partition coefficient (K&lt;sub&gt;OC&lt;/sub&gt;)</th>
<th>Mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td>:</td>
<td>: Not available.</td>
</tr>
</tbody>
</table>

12.5 Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects
No known significant effects or critical hazards.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

**Product**

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

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

**Packaging**

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

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

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4 Packing group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
</tbody>
</table>

**Additional information**

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

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

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV
None of the components are listed.

Substances of very high concern
None of the components are listed.
### OneSeq Phased Exome Target Enrichment Box 1, 96 reactions, Part Number: 5190-9555

### SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Annex XVII - Restrictions</th>
<th>OneSeq Hyb 1</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>on the manufacture,</td>
<td>OneSeq Hyb 2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>placing on the market</td>
<td>OneSeq Hyb 4</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>and use of certain</td>
<td>OneSeq Binding Buffer</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>dangerous substances,</td>
<td>OneSeq Wash Buffer 1</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>mixtures and articles</td>
<td>OneSeq Wash Buffer 2</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Other EU regulations

**Ozone depleting substances (1005/2009/EU)**

Not applicable.

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

Not applicable.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

### International regulations

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

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

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### Inventory list

**Australia**

: 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.

### 15.2 Chemical safety assessment

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

**Date of issue/Date of revision**: 22/05/2019
Indicates information that has changed from previously issued version.

Abbreviations and acronyms:
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 Eye Irrit. 2, H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>OneSeq Hyb 2 Eye Irrit. 2, H319</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>OneSeq Hyb 2 H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>OneSeq Binding Buffer  H319</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

Full text of classifications [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneSeq Hyb 1 Eye Irrit. 2, H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td>OneSeq Hyb 2 Eye Irrit. 2, H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td>OneSeq Binding Buffer  Eye Irrit. 2, H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 22/05/2019

Date of previous issue: 20/10/2016

Version: 2

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