Section 1. Identification

1.1 Product identifier

Product name : SureSelect QXT Target Enrichment Kit-ILM-Hyb Module Box 2
Part No. (Chemical Kit) : 5190-7332, 5190-7334
Part No. : SureSelect RNase Block 5190-4383 / 5972-3700
SureSelect Fast Hybridization Buffer 5190-7327 / 5190-7330
SureSelect QXT Fast Blocker Mix 5190-7326 / 5190-7329
SureSelect QXT Primer Mix 5190-7083 / 5190-7086

Validation date : 8/31/2017

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

Material uses : Analytical reagent.

SureSelect RNase Block : 0.016 ml - 0.07 ml
SureSelect Fast Hybridization Buffer : 0.45 ml - 0.77 ml
SureSelect QXT Fast Blocker Mix : 0.08 ml - 0.64 ml
SureSelect QXT Primer Mix : 0.016 ml - 0.145 ml

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : SureSelect RNase Block
SureSelect Fast Hybridization Buffer
SureSelect QXT Fast Blocker Mix
SureSelect QXT Primer Mix

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

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Date of issue : 08/31/2017
## Section 2. Hazards identification

**SureSelect RNase Block**

### Ingredients of unknown toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Hazard</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%</th>
<th>Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>EYE IRRITATION - Category 2B</td>
<td>30 - 60%</td>
<td>1 - 10%</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 2.2 GHS label elements

#### Signal word

- SureSelect RNase Block: Warning
- SureSelect Fast Hybridization Buffer: No signal word.
- SureSelect QXT Fast Blocker Mix: No signal word.
- SureSelect QXT Primer Mix: No signal word.

#### Hazard statements

- SureSelect RNase Block: H320 - Causes eye irritation.
- SureSelect Fast Hybridization Buffer: No known significant effects or critical hazards.
- SureSelect QXT Fast Blocker Mix: No known significant effects or critical hazards.
- SureSelect QXT Primer Mix: No known significant effects or critical hazards.

#### Precautionary statements

**Prevention**

- SureSelect RNase Block: P264 - Wash hands thoroughly after handling. Not applicable.
- SureSelect Fast Hybridization Buffer: Not applicable.
- SureSelect QXT Fast Blocker Mix: Not applicable.
- SureSelect QXT Primer Mix: Not applicable.

**Response**

- SureSelect RNase Block: 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.

- SureSelect Fast Hybridization Buffer: Not applicable.
- SureSelect QXT Fast Blocker Mix: Not applicable.
- SureSelect QXT Primer Mix: Not applicable.

**Storage**

- SureSelect RNase Block: Not applicable.
- SureSelect Fast Hybridization Buffer: Not applicable.
- SureSelect QXT Fast Blocker Mix: Not applicable.
- SureSelect QXT Primer Mix: Not applicable.

**Disposal**

- SureSelect RNase Block: Not applicable.
- SureSelect Fast Hybridization Buffer: Not applicable.
- SureSelect QXT Fast Blocker Mix: Not applicable.
- SureSelect QXT Primer Mix: Not applicable.

### Supplemental label elements

- SureSelect RNase Block: None known.
- SureSelect Fast Hybridization Buffer: None known.
- SureSelect QXT Fast Blocker Mix: None known.
- SureSelect QXT Primer Mix: None known.

### 2.3 Other hazards

Date of issue: 08/31/2017
Section 2. Hazards identification

Hazards not otherwise classified:

- SureSelect RNase Block: None known.
- SureSelect Fast Hybridization Buffer: None known.
- SureSelect QXT Fast Blocker Mix: None known.
- SureSelect QXT Primer Mix: None known.

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>Glycerol</td>
<td>≥50 - ≤75</td>
<td>56-81-5</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>≤3</td>
<td>1185-53-1</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

4.1 Description of necessary first aid measures

Eye contact:  
- SureSelect RNase Block: 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. If irritation persists, get medical attention.
- SureSelect Fast Hybridization 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.
- SureSelect QXT Fast Blocker Mix: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- SureSelect QXT Primer Mix: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation:  
- SureSelect RNase Block: 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.
Section 4. First aid measures

<table>
<thead>
<tr>
<th>Substance</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>Skin contact: SureSelect RNase Block</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. 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>SureSelect Fast Hybridization Buffer</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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

| Ingestion: SureSelect RNase Block            | 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect Fast Hybridization Buffer         | 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect QXT Fast Blocker Mix              | 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect QXT Primer Mix                    | 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |

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Section 4. First aid measures

SureSelect QXT Primer Mix quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Inhalation</th>
<th>Skin contact</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>SureSelect RNase Block</td>
<td>SureSelect RNase Block</td>
<td>SureSelect RNase Block</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>SureSelect Fast Hybridization Buffer</td>
<td>SureSelect Fast Hybridization Buffer</td>
<td>SureSelect Fast Hybridization Buffer</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>SureSelect QXT Fast Blocker Mix</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>SureSelect QXT Primer Mix</td>
<td>SureSelect QXT Primer Mix</td>
<td>SureSelect QXT Primer Mix</td>
</tr>
<tr>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Inhalation</th>
<th>Skin contact</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>SureSelect RNase Block</td>
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<td>SureSelect RNase Block</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>SureSelect Fast Hybridization Buffer</td>
<td>SureSelect Fast Hybridization Buffer</td>
<td>SureSelect Fast Hybridization Buffer</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>SureSelect QXT Fast Blocker Mix</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>SureSelect QXT Primer Mix</td>
<td>SureSelect QXT Primer Mix</td>
<td>SureSelect QXT Primer Mix</td>
</tr>
<tr>
<td>Adverse symptoms may include the following: irritation watering redness</td>
<td>No specific data.</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

Date of issue: 08/31/2017
SureSelect RNase Block
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.

SureSelect Fast Hybridization Buffer
No action shall be taken involving any personal risk or without suitable training.

SureSelect QXT Fast Blocker Mix
No action shall be taken involving any personal risk or without suitable training.

SureSelect QXT Primer Mix
No action shall be taken involving any personal risk or without suitable training.

Notes to physician:
SureSelect RNase Block
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SureSelect Fast Hybridization Buffer
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SureSelect QXT Fast Blocker Mix
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SureSelect QXT Primer Mix
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments:
SureSelect RNase Block
No specific treatment.

SureSelect Fast Hybridization Buffer
No specific treatment.

SureSelect QXT Fast Blocker Mix
No specific treatment.

SureSelect QXT Primer Mix
No specific treatment.

Protection of first-aiders:
SureSelect RNase Block
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.

SureSelect Fast Hybridization Buffer
No action shall be taken involving any personal risk or without suitable training.

SureSelect QXT Fast Blocker Mix
No action shall be taken involving any personal risk or without suitable training.

SureSelect QXT Primer Mix
No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:
SureSelect RNase Block
Use an extinguishing agent suitable for the surrounding fire.

SureSelect Fast Hybridization Buffer
Use an extinguishing agent suitable for the surrounding fire.

SureSelect QXT Fast Blocker Mix
Use an extinguishing agent suitable for the surrounding fire.

SureSelect QXT Primer Mix
Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
SureSelect RNase Block
None known.

SureSelect Fast Hybridization Buffer
None known.

SureSelect QXT Fast Blocker Mix
None known.

SureSelect QXT Primer Mix
None known.
## Section 5. Fire-fighting measures

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

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>SureSelect RNase Block</th>
<th>SureSelect Fast Hybridization Buffer</th>
<th>SureSelect QXT Fast Blocker Mix</th>
<th>SureSelect QXT Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
<td></td>
</tr>
</tbody>
</table>

### Hazardous thermal decomposition products

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>Decomposition products may include the following materials: carbon dioxide carbon monoxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

### 5.3 Advice for firefighters

#### Special protective actions for fire-fighters

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization 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>SureSelect QXT Fast Blocker Mix</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>SureSelect QXT Primer Mix</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>SureSelect RNase Block</th>
<th>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</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>SureSelect QXT Fast Blocker Mix</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>
### Section 5. Fire-fighting measures

Equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

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

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>SureSelect RNase Block</th>
<th>If 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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td></td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td></td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td></td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For emergency responders</th>
<th>SureSelect RNase Block</th>
<th>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 &quot;For non-emergency personnel&quot;.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td></td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td></td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td></td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
</tbody>
</table>

#### 6.2 Environmental precautions

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

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

SureSelect QXT Fast Blocker Mix
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).

SureSelect QXT Primer Mix
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).

6.3 Methods and materials for containment and cleaning up

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

SureSelect Fast Hybridization Buffer
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SureSelect QXT Fast Blocker Mix
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SureSelect QXT Primer Mix
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures: SureSelect RNase Block
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.

SureSelect Fast Hybridization Buffer
Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT Fast Blocker Mix
Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT Primer Mix
Put on appropriate personal protective equipment (see Section 8).
**Section 7. Handling and storage**

### Advice on general occupational hygiene

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

- **SureSelect Fast Hybridization 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.

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

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

### 7.2 Conditions for safe storage, including any incompatibilities

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

- **SureSelect Fast Hybridization 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.

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

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Section 7. Handling and storage

Containers. Use appropriate containment to avoid environmental contamination. See Section 10 for 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.

7.3 Specific end use(s)

**Recommendations**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Industrial applications</th>
<th>Professional applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>Industrial applications</td>
<td>Professional applications</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>Industrial applications</td>
<td>Professional applications</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>Industrial applications</td>
<td>Professional applications</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>Industrial applications</td>
<td>Professional applications</td>
</tr>
</tbody>
</table>

**Industrial sector specific solutions**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Not applicable</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 8. Exposure controls/personal protection

8.1 Control parameters

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>OSHA PEL (United States, 6/2016). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td>None.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

**Appropriate engineering controls**

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

**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.

Individual protection measures

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Section 8. Exposure controls/personal protection

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: chemical splash goggles.

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 gloves 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

9.1 Information on basic physical and chemical properties

Appearance

Color: SureSelect RNase Block Not available. SureSelect Fast Hybridization Buffer Not available. SureSelect QXT Fast Blocker Mix Not available. SureSelect QXT Primer Mix Not available.

Odor: SureSelect RNase Block Not available. SureSelect Fast Hybridization Buffer Not available. SureSelect QXT Fast Blocker Mix Not available. SureSelect QXT Primer Mix Not available.

Odor threshold: SureSelect RNase Block Not available. SureSelect Fast Hybridization Buffer Not available. SureSelect QXT Fast Blocker Mix Not available. SureSelect QXT Primer Mix Not available.

pH: 

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## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect RNase Block</th>
<th>SureSelect Fast Hybridization Buffer</th>
<th>SureSelect QXT Fast Blocker Mix</th>
<th>SureSelect QXT Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>Not available.</td>
<td>Not available.</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available.</td>
<td>Not available.</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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Section 9. Physical and chemical properties

**Solubility**
- **SureSelect RNase Block**: Soluble in the following materials: cold water and hot water.
- **SureSelect Fast Hybridization Buffer**: Easily soluble in the following materials: cold water and hot water.
- **SureSelect QXT Fast Blocker Mix**: Easily soluble in the following materials: cold water and hot water.
- **SureSelect QXT Primer Mix**: Easily soluble in the following materials: cold water and hot water.

**Partition coefficient: n-octanol/water**
- **SureSelect RNase Block**: Not available.
- **SureSelect Fast Hybridization Buffer**: Not available.
- **SureSelect QXT Fast Blocker Mix**: Not available.
- **SureSelect QXT Primer Mix**: Not available.

**Auto-ignition temperature**
- **SureSelect RNase Block**: Not available.
- **SureSelect Fast Hybridization Buffer**: Not available.
- **SureSelect QXT Fast Blocker Mix**: Not available.
- **SureSelect QXT Primer Mix**: Not available.

**Decomposition temperature**
- **SureSelect RNase Block**: Not available.
- **SureSelect Fast Hybridization Buffer**: Not available.
- **SureSelect QXT Fast Blocker Mix**: Not available.
- **SureSelect QXT Primer Mix**: Not available.

**Viscosity**
- **SureSelect RNase Block**: Not available.
- **SureSelect Fast Hybridization Buffer**: Not available.
- **SureSelect QXT Fast Blocker Mix**: Not available.
- **SureSelect QXT Primer Mix**: Not available.

Section 10. Stability and reactivity

**10.1 Reactivity**
- **SureSelect RNase Block**: No specific test data related to reactivity available for this product or its ingredients.
- **SureSelect Fast Hybridization Buffer**: No specific test data related to reactivity available for this product or its ingredients.
- **SureSelect QXT Fast Blocker Mix**: No specific test data related to reactivity available for this product or its ingredients.
- **SureSelect QXT Primer Mix**: No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability**
- **SureSelect RNase Block**: The product is stable.
- **SureSelect Fast Hybridization Buffer**: The product is stable.
- **SureSelect QXT Fast Blocker Mix**: The product is stable.
- **SureSelect QXT Primer Mix**: The product is stable.

**10.3 Possibility of hazardous reactions**
- **SureSelect RNase Block**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **SureSelect Fast Hybridization Buffer**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **SureSelect QXT Fast Blocker Mix**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **SureSelect QXT Primer Mix**: Under normal conditions of storage and use, hazardous reactions will not occur.

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Section 10. Stability and reactivity

10.4 Conditions to avoid
- SureSelect RNase Block: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect QXT Fast Blocker Mix: No specific data.
- SureSelect QXT Primer Mix: No specific data.

10.5 Incompatible materials
- SureSelect RNase Block: May react or be incompatible with oxidizing materials.
- SureSelect Fast Hybridization Buffer: May react or be incompatible with oxidizing materials.
- SureSelect QXT Fast Blocker Mix: May react or be incompatible with oxidizing materials.
- SureSelect QXT Primer Mix: May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products
- SureSelect RNase Block: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect Fast Hybridization Buffer: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect QXT Fast Blocker Mix: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect QXT Primer Mix: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<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>SureSelect RNase Block</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 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>SureSelect RNase Block</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 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>

Sensitization
- Not available.

Mutagenicity
- Not available.

Carcinogenicity
- Not available.

Reproductive toxicity
- Not available.

Teratogenicity

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Section 11. Toxicological information

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>SureSelect Fast Hybridization Buffer</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure:

<table>
<thead>
<tr>
<th>Name</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Potential acute health effects

Eye contact:

<table>
<thead>
<tr>
<th>Name</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Inhalation:

<table>
<thead>
<tr>
<th>Name</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Skin contact:

<table>
<thead>
<tr>
<th>Name</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Ingestion:

<table>
<thead>
<tr>
<th>Name</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:

<table>
<thead>
<tr>
<th>Name</th>
<th>Adverse symptoms may include the following: irritation, watering, redness</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect QXT Fast Blocker Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td>SureSelect QXT Primer Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

Inhalation:
- SureSelect RNase Block: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect QXT Fast Blocker Mix: No specific data.
- SureSelect QXT Primer Mix: No specific data.

Skin contact:
- SureSelect RNase Block: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect QXT Fast Blocker Mix: No specific data.
- SureSelect QXT Primer Mix: No specific data.

Ingestion:
- SureSelect RNase Block: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect QXT Fast Blocker Mix: No specific data.
- SureSelect QXT Primer Mix: No specific data.

Carcinogenicity:
- SureSelect RNase Block: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect QXT Fast Blocker Mix: No specific data.
- SureSelect QXT Primer Mix: No specific data.

Mutagenicity:
- SureSelect RNase Block: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect QXT Fast Blocker Mix: No specific data.
- SureSelect QXT Primer Mix: No specific data.

Teratogenicity:
- SureSelect RNase Block: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect QXT Fast Blocker Mix: No specific data.
- SureSelect QXT Primer Mix: No specific data.

Developmental effects:
- SureSelect RNase Block: No specific data.
- SureSelect Fast Hybridization Buffer: No specific data.
- SureSelect QXT Fast Blocker Mix: No specific data.
- SureSelect QXT Primer Mix: 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:

General:
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer: No known significant effects or critical hazards.
- SureSelect QXT Fast Blocker Mix: No known significant effects or critical hazards.
- SureSelect QXT Primer Mix: No known significant effects or critical hazards.

Carcinogenicity:
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer: No known significant effects or critical hazards.
- SureSelect QXT Fast Blocker Mix: No known significant effects or critical hazards.
- SureSelect QXT Primer Mix: No known significant effects or critical hazards.

Mutagenicity:
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer: No known significant effects or critical hazards.
- SureSelect QXT Fast Blocker Mix: No known significant effects or critical hazards.
- SureSelect QXT Primer Mix: No known significant effects or critical hazards.

Teratogenicity:
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer: No known significant effects or critical hazards.
- SureSelect QXT Fast Blocker Mix: No known significant effects or critical hazards.
- SureSelect QXT Primer Mix: No known significant effects or critical hazards.

Potential chronic health effects:
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer: No known significant effects or critical hazards.
- SureSelect QXT Fast Blocker Mix: No known significant effects or critical hazards.
- SureSelect QXT Primer Mix: No known significant effects or critical hazards.

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Section 11. Toxicological information

**Fertility effects**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer: No known significant effects or critical hazards.
- SureSelect QXT Fast Blocker Mix: No known significant effects or critical hazards.
- SureSelect QXT Primer Mix: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**
Not available.

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>SureSelect RNase Block</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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>SureSelect RNase Block</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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.
Section 13. Disposal considerations

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / 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

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

U.S. Federal regulations

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ

SARA 311/312

Classification

SureSelect RNase Block Immediate (acute) health hazard
SureSelect Fast Hybridization Buffer Not applicable.
SureSelect QXT Fast Blocker Mix Not applicable.
SureSelect QXT Primer Mix Not applicable.

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Section 15. Regulatory information

### Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect Fast Hybridization Buffer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Amino-2-(hydroxymethyl)propane-1, 3-diol hydrochloride</td>
<td>≤3</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
</tbody>
</table>

### State regulations

- **Massachusetts**: The following components are listed: GLYCERINE MIST
- **New York**: None of the components are listed.
- **New Jersey**: The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- **Pennsylvania**: The following components are listed: 1,2,3-PROPANETRIOL

### International regulations

- **Chemical Weapon Convention List Schedules I, II & III Chemicals**: Not listed.
- **Stockholm Convention on Persistent Organic Pollutants**: Not listed.
- **UNECE Aarhus Protocol on POPs and Heavy Metals**: Not listed.

### Inventory list

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

**Date of issue**: 08/31/2017
Section 16. Other information

History

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† Indicates information that has changed from previously issued version.

Notice to reader

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