Section 1. Identification

Product identifier : SureSelect XT2 Pre-Capture Automation-ILM-Module Box 2
Part No. (Chemical Kit) : 5190-4462, 5190-4463
Part No. : SureSelect RNase Block 5190-4383 / 5190-4386
SureSelect XT2 Hybridization Buffer 5190-4464 / 5190-4466
SureSelect XT2 Blocking Mix 5190-4465 / 5190-4467

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

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

Section 2. Hazard(s) identification

Classification of the substance or mixture

SureSelect XT2 Hybridization Buffer H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

SureSelect RNase Block Percentage of the mixture consisting of ingredient(s)
of unknown inhalation toxicity: 30 - 60%
SureSelect XT2 Hybridization Buffer Percentage of the mixture consisting of ingredient(s)
of unknown dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient(s)
of unknown inhalation toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient(s)
of unknown oral toxicity: 1 - 10%

SureSelect XT2 Blocking Mix Percentage of the mixture consisting of ingredient(s)
of unknown hazards to the aquatic environment: 1.4%

GHS label elements

Hazard pictograms : SureSelect XT2 Hybridization Buffer

Signal word : SureSelect RNase Block No signal word.
SureSelect XT2 Hybridization Buffer WARNING
SureSelect XT2 Blocking Mix No signal word.

Hazard statements : SureSelect RNase Block No known significant effects or critical hazards.
H319 - Causes serious eye irritation.
SureSelect XT2 Hybridization Buffer SureSelect XT2 Blocking Mix No known significant effects or critical hazards.

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Date of previous issue : 05/11/2014
Version : 3
Section 2. Hazard(s) identification

Precautionary statements

Prevention:
- SureSelect RNase Block: Not applicable.
- SureSelect XT2 Hybridization Buffer: P280 - Wear eye or face protection.
- SureSelect XT2 Blocking Mix: Not applicable.

Response:
- SureSelect RNase Block: Not applicable.
- SureSelect XT2 Hybridization Buffer: 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 XT2 Blocking Mix: Not applicable.

Storage:
- SureSelect RNase Block: Not applicable.
- SureSelect XT2 Hybridization Buffer: Not applicable.
- SureSelect XT2 Blocking Mix: Not applicable.

Disposal:
- SureSelect RNase Block: Not applicable.
- SureSelect XT2 Hybridization Buffer: Not applicable.
- SureSelect XT2 Blocking Mix: Not applicable.

Supplemental label elements

Additional warning phrases:
- SureSelect RNase Block: Not applicable.
- SureSelect XT2 Hybridization Buffer: Not applicable.
- SureSelect XT2 Blocking Mix: Not applicable.

Other hazards which do not result in classification:
- SureSelect RNase Block: None known.
- SureSelect XT2 Hybridization Buffer: None known.
- SureSelect XT2 Blocking Mix: None known.

Section 3. Composition and ingredient information

Substance/mixture:
- SureSelect RNase Block: Mixture
- SureSelect XT2 Hybridization Buffer: Mixture
- SureSelect XT2 Blocking Mix: Mixture

CAS number/other identifiers

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>≥30 - ≤60</td>
<td>56-81-5</td>
</tr>
<tr>
<td>SureSelect XT2 Hybridization Buffer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>&lt;3</td>
<td>151-21-3</td>
</tr>
</tbody>
</table>

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

Occupational exposure limits, if available, are listed in Section 8.
# Section 4. First aid measures

## Description of necessary first aid measures

### Eye contact

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</td>
</tr>
<tr>
<td>SureSelect XT2 Blocking Mix</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
</tbody>
</table>

### Inhalation

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
<tr>
<td>SureSelect XT2 Blocking 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>
</tbody>
</table>

### Skin contact

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>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.</td>
</tr>
<tr>
<td>SureSelect XT2 Blocking Mix</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

### Ingestion

<table>
<thead>
<tr>
<th>SureSelect RNase Block</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 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. 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.</td>
</tr>
</tbody>
</table>

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Section 4. First aid measures

**SureSelect XT2 Blocking Mix**
- 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.
- 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.

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

**SureSelect RNase Block**
- No known significant effects or critical hazards.
- Causes serious eye irritation.

**SureSelect XT2 Hybridization Buffer**
- No known significant effects or critical hazards.

**SureSelect XT2 Blocking Mix**
- No known significant effects or critical hazards.

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

#### Potential acute health effects

**Eye contact**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect XT2: Causes serious eye irritation.
- Hybridization Buffer: No known significant effects or critical hazards.

**Inhalation**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect XT2: No known significant effects or critical hazards.
- Hybridization Buffer: No known significant effects or critical hazards.

**Skin contact**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect XT2: No known significant effects or critical hazards.
- Hybridization Buffer: No known significant effects or critical hazards.

**Ingestion**
- SureSelect RNase Block: No known significant effects or critical hazards.
- SureSelect XT2: No known significant effects or critical hazards.
- Hybridization Buffer: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**
- SureSelect RNase Block: No specific data.
- SureSelect XT2: Adverse symptoms may include the following: pain or irritation, watering, redness.
- Hybridization Buffer: No specific data.

**Inhalation**
- SureSelect RNase Block: No specific data.
- SureSelect XT2: No specific data.
- Hybridization Buffer: No specific data.

**Skin contact**
- SureSelect RNase Block: No specific data.
- SureSelect XT2: No specific data.
- Hybridization Buffer: No specific data.

**Ingestion**
- SureSelect RNase Block: No specific data.
- SureSelect XT2: No specific data.
- Hybridization Buffer: No specific data.

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

**Notes to physician**
- SureSelect RNase Block: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- SureSelect XT2: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Hybridization Buffer: In case of inhalation of decomposition products in a...
Section 4. First aid measures

Specific treatments:
- SureSelect RNase Block: No specific treatment.
- SureSelect XT2 Hybridization Buffer: No specific treatment.
- SureSelect XT2 Blocking Mix: No specific treatment.

Protection of first-aiders:
- SureSelect RNase Block: No action shall be taken involving any personal risk or without suitable training.
- SureSelect XT2 Hybridization Buffer: 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 XT2 Blocking Mix: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media:
- Suitable extinguishing media:
  - SureSelect RNase Block: Use an extinguishing agent suitable for the surrounding fire.
  - SureSelect XT2 Hybridization Buffer: Use an extinguishing agent suitable for the surrounding fire.
  - SureSelect XT2 Blocking Mix: Use an extinguishing agent suitable for the surrounding fire.

- Unsuitable extinguishing media:
  - SureSelect RNase Block: None known.
  - SureSelect XT2 Hybridization Buffer: None known.
  - SureSelect XT2 Blocking Mix: None known.

Specific hazards arising from the chemical:
- SureSelect RNase Block: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect XT2 Hybridization Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.
- SureSelect XT2 Blocking Mix: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:
- SureSelect RNase Block: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
- SureSelect XT2 Hybridization Buffer: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - sulfur oxides
  - phosphorus oxides
  - halogenated compounds
  - metal oxide/oxides
- SureSelect XT2 Blocking Mix: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - nitrogen oxides
  - phosphorus oxides
Section 5. Firefighting measures

**Special protective actions for fire-fighters**
- **SureSelect RNase Block**: 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.
- **SureSelect XT2 Hybridization 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.
- **SureSelect XT2 Blocking Mix**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**
- **SureSelect RNase Block**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- **SureSelect XT2 Hybridization Buffer**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- **SureSelect XT2 Blocking Mix**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**
- **SureSelect RNase Block**: 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.
- **SureSelect XT2 Hybridization 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **SureSelect XT2 Blocking Mix**: 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**
- **SureSelect RNase Block**: 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".
- **SureSelect XT2 Hybridization 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".
- **SureSelect XT2 Blocking Mix**: 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

Environmental precautions:
- **SureSelect RNase Block**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **SureSelect XT2 Hybridization Buffer**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **SureSelect XT2 Blocking Mix**: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material 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 XT2 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 XT2 Blocking 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

Precautions for safe handling

Protective measures:
- **SureSelect RNase Block**: Put on appropriate personal protective equipment (see Section 8).
- **SureSelect XT2 Hybridization Buffer**: 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.
- **SureSelect XT2 Blocking Mix**: Put on appropriate personal protective equipment (see Section 8).

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 XT2 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
Section 7. Handling and storage

SureSelect XT2 Blocking Mix

Conditions for safe storage, including any incompatibilities

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 RNase Block

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

SureSelect XT2 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect XT2 Blocking Mix

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

Section 8. Exposure controls and personal protection

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>Safe Work Australia (Australia, 1/2014).</td>
</tr>
<tr>
<td>Glycerol</td>
<td>TWA: 10 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

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.
Section 8. Exposure controls and personal protection

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: 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 glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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

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

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

Section 9. Physical and chemical properties

Appearance

Physical state: SureSelect RNase Block Liquid.
SureSelect XT2 Liquid.
Hybridization Buffer
SureSelect XT2 Blocking Mix Liquid.

Colour: SureSelect RNase Block Not available.
SureSelect XT2 Not available.
Hybridization Buffer
SureSelect XT2 Blocking Mix Not available.

Odour: SureSelect RNase Block Not available.
SureSelect XT2 Not available.
Hybridization Buffer
SureSelect XT2 Blocking Mix Not available.

Odour threshold: SureSelect RNase Block Not available.
SureSelect XT2 Not available.
Hybridization Buffer
SureSelect XT2 Blocking Mix Not available.

pH: SureSelect RNase Block 7.6
SureSelect XT2 7.4
Hybridization Buffer
SureSelect XT2 Blocking Mix 7.5

Melting point: SureSelect RNase Block Not available.
SureSelect XT2 Not available.
Hybridization Buffer
SureSelect XT2 Blocking Mix 0°C (32°F)
# Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect RNase Block</th>
<th>SureSelect XT2</th>
<th>SureSelect XT2 Blocking Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boiling point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Lower and upper explosive (flammable) limits</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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Date of previous issue: 05/11/2014  
Version: 3
Section 10. Stability and reactivity

Reactivity:
- SureSelect RNase Block: No specific test data related to reactivity available for this product or its ingredients.
- SureSelect XT2 Hybridization Buffer: No specific test data related to reactivity available for this product or its ingredients.
- SureSelect XT2 Blocking Mix: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability:
- SureSelect RNase Block: The product is stable.
- SureSelect XT2 Hybridization Buffer: The product is stable.
- SureSelect XT2 Blocking Mix: The product is stable.

Possibility of hazardous reactions:
- SureSelect RNase Block: Under normal conditions of storage and use, hazardous reactions will not occur.
- SureSelect XT2 Hybridization Buffer: Under normal conditions of storage and use, hazardous reactions will not occur.
- SureSelect XT2 Blocking Mix: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:
- SureSelect RNase Block: No specific data.
- SureSelect XT2 Hybridization Buffer: No specific data.
- SureSelect XT2 Blocking Mix: No specific data.

Incompatible materials:
- SureSelect RNase Block: May react or be incompatible with oxidising materials.
- SureSelect XT2 Hybridization Buffer: May react or be incompatible with oxidising materials.
- SureSelect XT2 Blocking Mix: May react or be incompatible with oxidising materials.

Hazardous decomposition products:
- SureSelect RNase Block: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect XT2 Hybridization Buffer: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- SureSelect XT2 Blocking Mix: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity:

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect RNase Block</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1288 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

<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><strong>SureSelect RNase Block</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</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>
<tr>
<td><strong>SureSelect XT2 Hybridization Buffer</strong></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>250 Micrograms</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>Eyes - Moderate irritant</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>Guinea pig</td>
<td>-</td>
<td>24 hours 25 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Mouse</td>
<td>-</td>
<td>24 hours 25 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 50 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 25 milligrams</td>
<td>-</td>
</tr>
<tr>
<td><strong>SureSelect XT2 Blocking Mix</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sensitisation**
Not available.

**Mutagenicity**
Not available.

**Carcinogenicity**
Not available.

**Reproductive toxicity**
Not available.

**Teratogenicity**
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><strong>SureSelect XT2 Hybridization Buffer</strong></td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Specific target organ toxicity (repeated exposure)**
Not available.

**Aspiration hazard**
Not available.

**Information on likely routes of exposure**

- **SureSelect RNase Block**
  - Routes of entry anticipated: Oral, Dermal, Inhalation.
- **SureSelect XT2 Hybridization Buffer**
  - Routes of entry anticipated: Oral, Dermal, Inhalation.
- **SureSelect XT2 Blocking Mix**
  - Not available.

**Potential acute health effects**

- **Eye contact**
  - **SureSelect RNase Block**
    - No known significant effects or critical hazards.
  - **SureSelect XT2 Hybridization Buffer**
    - Causes serious eye irritation.
  - **SureSelect XT2 Blocking Mix**
    - No known significant effects or critical hazards.
# Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Section</th>
<th>Substance</th>
<th>Toxicological Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>SureSelect RNase Block</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>pain or irritation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>watering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>redness</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>SureSelect RNase Block</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>SureSelect RNase Block</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>SureSelect RNase Block</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

### Short term exposure

<table>
<thead>
<tr>
<th>Potential immediate effects</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential delayed effects</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Long term exposure

<table>
<thead>
<tr>
<th>Potential immediate effects</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential delayed effects</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Potential chronic health effects

Not available.

<table>
<thead>
<tr>
<th>General</th>
<th>SureSelect RNase Block</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>SureSelect RNase Block</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>SureSelect XT2 Blocking Mix</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

### Teratogenicity
- **SureSelect RNase Block**
  - No known significant effects or critical hazards.
- **SureSelect XT2 Hybridization Buffer**
  - No known significant effects or critical hazards.
- **SureSelect XT2 Blocking Mix**
  - No known significant effects or critical hazards.

### Developmental effects
- **SureSelect RNase Block**
  - No known significant effects or critical hazards.
- **SureSelect XT2 Hybridization Buffer**
  - No known significant effects or critical hazards.
- **SureSelect XT2 Blocking Mix**
  - No known significant effects or critical hazards.

### Fertility effects
- **SureSelect RNase Block**
  - No known significant effects or critical hazards.
- **SureSelect XT2 Hybridization Buffer**
  - No known significant effects or critical hazards.
- **SureSelect XT2 Blocking Mix**
  - No known significant effects or critical hazards.

#### Numerical measures of toxicity

##### Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>48548.8 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>11308 mg/kg</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

### Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SureSelect RNase Block</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td><strong>SureSelect XT2 Hybridization Buffer</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>Acute LC50 1200 µg/l Marine water</td>
<td>Algae - Skeletonema costatum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 900 µg/l Marine water</td>
<td>Crustaceans - Artemia salina - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1400 µg/l Fresh water</td>
<td>Daphnia - Daphnia pulex - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 590 µg/l Fresh water</td>
<td>Fish - Cirrhinus mrigala - Larvae</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 1.25 mg/l Marine water</td>
<td>Algae - Ulva fasciata - Zoa</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 1 mg/l Fresh water</td>
<td>Crustaceans - Pseudosida ramosa - Neonate</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 3.2 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC &gt;1357 µg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>42 days</td>
</tr>
</tbody>
</table>

### 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><strong>SureSelect RNase Block</strong></td>
<td></td>
<td>93 % - 30 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Bioaccumulative potential
Section 12. Ecological information

<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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>SureSelect XT2 Hybridization Buffer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulphate</td>
<td>-2.03</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

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

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

Section 13. Disposal considerations

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

**Standard Uniform Schedule of Medicine and Poisons**

No listed substance

**Model Work Health and Safety Regulations - Scheduled Substances**

No listed substance

**International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Date of issue/Date of revision : 27/09/2017

Date of previous issue : 05/11/2014.

Version : 3

15/16
Section 15. Regulatory information

Not listed.

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

Not listed.

### Inventory list

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Canada</td>
<td>Not determined.</td>
</tr>
<tr>
<td>China</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Europe</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
<td>Japan inventory (ENCS): Not determined.</td>
</tr>
<tr>
<td></td>
<td>Japan inventory (ISHL): Not determined.</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Philippines</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Taiwan</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Thailand</td>
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</tr>
<tr>
<td>Turkey</td>
<td>Not determined.</td>
</tr>
<tr>
<td>United States</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

Section 16. Any other relevant information

**History**

Date of issue/Date of revision: 27/09/2017

Date of previous issue: 05/11/2014.

Version: 3

Key to abbreviations:

- **ADG** = Australian Dangerous Goods
- **ATE** = Acute Toxicity Estimate
- **BCF** = Bioconcentration Factor
- **GHS** = Globally Harmonized System of Classification and Labelling of Chemicals
- **IATA** = International Air Transport Association
- **IBC** = Intermediate Bulk Container
- **IMDG** = International Maritime Dangerous Goods
- **LogPow** = logarithm of the octanol/water partition coefficient
- **MARPOL** = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- **NOHSC** = National Occupational Health and Safety Commission
- **SUSMP** = Standard Uniform Schedule of Medicine and Poisons
- **UN** = United Nations

**Procedure used to derive the classification**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSelect XT2 Hybridization Buffer</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

**References**: Not available.

**Notice to reader**

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