Chapter 1. Identification

1.1 Product identifier

Product name : SureSelect XT2 Block Mix and Primer Mix Kit, Part Number 5190-7472
Part No. (Chemical Kit) : 5190-7472
Part No. : SureSelect XT2 Blocking Mix 5190-4087
XT2 Primer Mix 5190-3804
Validation date : 3/30/2016

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

Material uses : Analytical reagent.
SureSelect XT2 Blocking Mix 2.16 ml (2 x 1.08 ml)
XT2 Primer Mix 0.32 ml (16 Reactions)

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

Chapter 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : SureSelect XT2 Blocking Mix
XT2 Primer Mix
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.

Classification of the substance or mixture

Not classified.

Ingredients of unknown toxicity : SureSelect XT2 Blocking Mix
XT2 Primer Mix
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1%
Not applicable.

2.2 GHS label elements

Signal word : SureSelect XT2 Blocking Mix
XT2 Primer Mix
No signal word.

Hazard statements : SureSelect XT2 Blocking Mix
XT2 Primer Mix
No known significant effects or critical hazards.

Precautionary statements

Date of issue : 03/30/2016
SureSelect XT2 Block Mix and Primer Mix Kit, Part Number 5190-7472

Section 2. Hazards identification

| Prevention | SureSelect XT2 Blocking Mix | Not applicable. |
|            | XT2 Primer Mix              | Not applicable. |
| Response   | SureSelect XT2 Blocking Mix | Not applicable. |
|            | XT2 Primer Mix              | Not applicable. |
| Storage    | SureSelect XT2 Blocking Mix | Not applicable. |
|            | XT2 Primer Mix              | Not applicable. |
| Disposal   | SureSelect XT2 Blocking Mix | Not applicable. |
|            | XT2 Primer Mix              | Not applicable. |
| Supplemental label elements | SureSelect XT2 Blocking Mix | None known. |
|            | XT2 Primer Mix              | None known. |

2.3 Other hazards

| Hazards not otherwise classified | SureSelect XT2 Blocking Mix | None known. |
|                                  | XT2 Primer Mix              | None known. |

Section 3. Composition/information on ingredients

| Substance/mixture | SureSelect XT2 Blocking Mix | Mixture |
|                  | XT2 Primer Mix              | Mixture |

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

There are no 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 XT2 Blocking 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. |
|            | XT2 Primer Mix              |                                                                      |

| Inhalation | SureSelect XT2 Blocking Mix | 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. |
|           | XT2 Primer Mix              |                                                                      |

| Skin contact | SureSelect XT2 Blocking Mix | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
|             | XT2 Primer Mix              |                                                                      |

Date of issue: 03/30/2016
Section 4. First aid measures

**Ingestion**: SureSelect XT2 Blocking Mix
- 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.

**XT2 Primer Mix**: 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**

- **Eye contact**: SureSelect XT2 Blocking Mix
  - No known significant effects or critical hazards.
  - No specific data.

- **Inhalation**: SureSelect XT2 Blocking Mix
  - No known significant effects or critical hazards.
  - No specific data.

- **Skin contact**: SureSelect XT2 Blocking Mix
  - No known significant effects or critical hazards.
  - No specific data.

- **Ingestion**: SureSelect XT2 Blocking Mix
  - No known significant effects or critical hazards.
  - No specific data.

**Over-exposure signs/symptoms**

- **Eye contact**: SureSelect XT2 Blocking Mix
  - No known significant effects or critical hazards.
  - No specific data.

- **Inhalation**: SureSelect XT2 Blocking Mix
  - No known significant effects or critical hazards.
  - No specific data.

- **Skin contact**: SureSelect XT2 Blocking Mix
  - No known significant effects or critical hazards.
  - No specific data.

- **Ingestion**: SureSelect XT2 Blocking Mix
  - No known significant effects or critical hazards.
  - No specific data.

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

**Notes to physician**: SureSelect XT2 Blocking 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.

- XT2 Primer Mix
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**: SureSelect XT2 Blocking Mix

- No specific treatment.
  - No specific treatment.

**Protection of first-aiders**: SureSelect XT2 Blocking Mix

- No action shall be taken involving any personal risk or without suitable training.

- XT2 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

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>SureSelect XT2 Blocking Mix</th>
<th>XT2 Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>SureSelect XT2 Blocking Mix</td>
<td>XT2 Primer Mix</td>
</tr>
</tbody>
</table>

5.2 Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>SureSelect XT2 Blocking Mix</th>
<th>XT2 Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous thermal decomposition products</td>
<td>SureSelect XT2 Blocking Mix</td>
<td>XT2 Primer Mix</td>
</tr>
</tbody>
</table>

5.3 Advice for firefighters

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
<th>SureSelect XT2 Blocking Mix</th>
<th>XT2 Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>SureSelect XT2 Blocking Mix</td>
<td>XT2 Primer Mix</td>
</tr>
</tbody>
</table>

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 XT2 Blocking Mix</th>
<th>XT2 Primer Mix</th>
</tr>
</thead>
</table>

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Section 6. Accidental release measures

For emergency responders

For emergency responders:

SureSelect XT2 Blocking Mix

XT2 Primer Mix

6.2 Environmental precautions

SureSelect XT2 Blocking Mix

XT2 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).

XT2 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).

Methods for cleaning up

SureSelect XT2 Blocking Mix

XT2 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.

XT2 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 XT2 Blocking Mix

XT2 Primer Mix

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

Advice on general occupational hygiene

SureSelect XT2 Blocking Mix

XT2 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.

Date of issue: 03/30/2016
Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

XT2 Primer 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.

7.3 Specific end use(s)

Recommendations

SureSelect XT2 Blocking Mix

Industrial applications, Professional applications.

XT2 Primer Mix

Industrial applications, Professional applications.

7.4 Recommendations

Industrial sector specific solutions

XT2 Blocking Mix

Not applicable.

XT2 Primer Mix

Not applicable.

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>None.</td>
<td></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

Hygiene measures

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

Eye/face protection

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

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Section 8. Exposure controls/personal protection

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

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

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

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

Physical state: SureSelect XT2 Blocking Mix Liquid.
XT2 Primer Mix Liquid.
Color: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Odor: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Odor threshold: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
pH: SureSelect XT2 Blocking Mix 7.5
XT2 Primer Mix 7.5
Melting point: SureSelect XT2 Blocking Mix 0°C (32°F)
XT2 Primer Mix 0°C (32°F)
Boiling point: SureSelect XT2 Blocking Mix 100°C (212°F)
XT2 Primer Mix 100°C (212°F)
Flash point: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Evaporation rate: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Flammability (solid, gas): SureSelect XT2 Blocking Mix Not applicable.
XT2 Primer Mix Not applicable.
Lower and upper explosive (flammable) limits: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Vapor pressure: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Vapor density: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Relative density: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Solubility: SureSelect XT2 Blocking Mix Easily soluble in the following materials: cold water and hot water.
XT2 Primer Mix Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Auto-ignition temperature: SureSelect XT2 Blocking Mix Not available.
XT2 Primer Mix Not available.
Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>SureSelect XT2 Blocking Mix</th>
<th>XT2 Primer Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and reactivity

10.1 Reactivity

| SureSelect XT2 Blocking Mix | No specific test data related to reactivity available for this product or its ingredients. |
| XT2 Primer Mix             | No specific test data related to reactivity available for this product or its ingredients. |

10.2 Chemical stability

| SureSelect XT2 Blocking Mix | The product is stable. |
| XT2 Primer Mix             | The product is stable. |

10.3 Possibility of hazardous reactions

| SureSelect XT2 Blocking Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| XT2 Primer Mix             | Under normal conditions of storage and use, hazardous reactions will not occur. |

10.4 Conditions to avoid

| SureSelect XT2 Blocking Mix | No specific data. |
| XT2 Primer Mix             | No specific data. |

10.5 Incompatible materials

| SureSelect XT2 Blocking Mix | May react or be incompatible with oxidizing materials. |
| XT2 Primer Mix             | May react or be incompatible with oxidizing materials. |

10.6 Hazardous decomposition products

| SureSelect XT2 Blocking Mix | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| XT2 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

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

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Section 11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on the likely routes of exposure

Inhalation
SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
XT2 Primer Mix: No known significant effects or critical hazards.

Ingestion
SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
XT2 Primer Mix: No known significant effects or critical hazards.

Skin contact
SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
XT2 Primer Mix: No known significant effects or critical hazards.

Eye contact
SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
XT2 Primer Mix: No known significant effects or critical hazards.

Potential acute health effects

Eye contact
SureSelect XT2 Blocking Mix: No specific data.
XT2 Primer Mix: No specific data.

Inhalation
SureSelect XT2 Blocking Mix: No specific data.
XT2 Primer Mix: No specific data.

Skin contact
SureSelect XT2 Blocking Mix: No specific data.
XT2 Primer Mix: No specific data.

Ingestion
SureSelect XT2 Blocking Mix: No specific data.
XT2 Primer Mix: No specific data.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
SureSelect XT2 Blocking Mix: No specific data.
XT2 Primer Mix: No specific data.

Inhalation
SureSelect XT2 Blocking Mix: No specific data.
XT2 Primer Mix: No specific data.

Skin contact
SureSelect XT2 Blocking Mix: No specific data.
XT2 Primer Mix: No specific data.

Ingestion
SureSelect XT2 Blocking Mix: No specific data.
XT2 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 XT2 Blocking Mix: No known significant effects or critical hazards.
XT2 Primer Mix: No known significant effects or critical hazards.

Carcinogenicity
SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
XT2 Primer Mix: No known significant effects or critical hazards.

Mutagenicity
SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
XT2 Primer Mix: No known significant effects or critical hazards.

Teratogenicity
SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
XT2 Primer Mix: No known significant effects or critical hazards.

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Section 11. Toxicological information

Developmental effects
- SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
- XT2 Primer Mix: No known significant effects or critical hazards.

Fertility effects
- SureSelect XT2 Blocking Mix: No known significant effects or critical hazards.
- XT2 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
Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
- Soil/water partition coefficient ($K_{OC}$): 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. Empty containers or liners may retain some product residues. 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.

Date of issue: 03/30/2016
Section 14. Transport information

Regulatory information

DOT / IMDG / IATA : Not regulated.

Section 15. Regulatory information

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

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 311: Edetic acid

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 : Not applicable.

SARA 311/312

Classification : Not applicable.
Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.
New York : None of the components are listed.
New Jersey : None of the components are listed.
Pennsylvania : None of the components are listed.

California Prop. 65

No products were found.

Canada inventory

: All components are listed or exempted.

International regulations

International lists

: Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory (ENCS): All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.
Turkey inventory: Not determined.

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Section 15. Regulatory information

Chemical Weapons Convention List Schedule I Chemicals : Not listed
Chemical Weapons Convention List Schedule II Chemicals : Not listed
Chemical Weapons Convention List Schedule III Chemicals : Not listed

Section 16. Other information

History
Date of issue : 03/30/2016
Date of previous issue : 06/23/2014.
Version : 2

Notice to reader

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