

# SAFETY DATA SHEET

SureSelect XT Fast Target Enrichment Kit ILM Hyb Module Box 1, Part Number 5190-8840

## Section 1. Identification

<b>Product identifier</b>	: SureSelect XT Fast Target Enrichment Kit ILM Hyb Module Box 1, Part Number 5190-8840
<b>Part no. (chemical kit)</b>	: 5190-8840
<b>Part no.</b>	: SureSelect Binding Buffer 5190-4399 / 5190-4407 SureSelect Wash Buffer 1 5190-4400 / 5190-4408 SureSelect Wash Buffer 2 5190-4401 / 5190-4409
<b>Material uses</b>	: Analytical reagent. SureSelect Binding Buffer 13.2 ml - 80 ml SureSelect Wash Buffer 1 8 ml - 48 ml SureSelect Wash Buffer 2 24 ml - 144 ml
<b>Supplier/Manufacturer</b>	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
<b>Emergency telephone number (with hours of operation)</b>	: CHEMTREC®: 1-800-424-9300

## Section 2. Hazard identification

### Classification of the substance or mixture

Not classified.

### GHS label elements

<b>Signal word</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No signal word. No signal word. No signal word.
<b>Hazard statements</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not applicable. Not applicable. Not applicable.
<b>Response</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not applicable. Not applicable. Not applicable.
<b>Storage</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	None known. None known. None known.

## Section 2. Hazard identification

**Other hazards which do not result in classification** :

SureSelect Binding Buffer	None known.
SureSelect Wash Buffer 1	None known.
SureSelect Wash Buffer 2	None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** :

SureSelect Binding Buffer	Mixture
SureSelect Wash Buffer 1	Mixture
SureSelect Wash Buffer 2	Mixture

Ingredient name	% (w/w)	CAS number
<b>SureSelect Binding Buffer</b> Sodium chloride	3 - 7	7647-14-5
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	<0.1	151-21-3
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	<0.1	151-21-3

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

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: SureSelect Binding Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Wash Buffer 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: SureSelect Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: SureSelect Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

## Section 4. First-aid measures

<b>Ingestion</b>	: SureSelect Binding Buffer	Wash out mouth with water. 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 Wash Buffer 1	Wash out mouth with water. 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 Wash Buffer 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

#### Potential acute health effects

<b>Eye contact</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No specific data. No specific data. No specific data.
<b>Inhalation</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No specific data. No specific data. No specific data.
<b>Skin contact</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No specific data. No specific data. No specific data.
<b>Ingestion</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No specific data. No specific data. No specific data.

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

<b>Notes to physician</b>	: SureSelect Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 4. First-aid measures

<b>Specific treatments</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No specific treatment. No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: SureSelect Binding Buffer  SureSelect Wash Buffer 1  SureSelect Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.  No action shall be taken involving any personal risk or without suitable training.  No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: SureSelect Binding Buffer  SureSelect Wash Buffer 1  SureSelect Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	None known. None known. None known.
<b>Specific hazards arising from the chemical</b>	: SureSelect Binding Buffer  SureSelect Wash Buffer 1  SureSelect Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: SureSelect Binding Buffer  SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides No specific data. No specific data.
<b>Special protective actions for fire-fighters</b>	: SureSelect Binding Buffer  SureSelect Wash Buffer 1  SureSelect Wash Buffer 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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. 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.
<b>Special protective equipment for fire-fighters</b>	: SureSelect Binding Buffer  SureSelect Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 5. Fire-fighting measures

SureSelect Wash Buffer 2 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	SureSelect Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: SureSelect Binding Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Wash Buffer 1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Wash Buffer 2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>Environmental precautions</b>	: SureSelect Binding Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureSelect Wash Buffer 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureSelect Wash Buffer 2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

<b>Methods for cleaning up</b>	: SureSelect Binding 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 Wash Buffer 1	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 Wash Buffer 2	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

<b>Protective measures</b>	: SureSelect Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: SureSelect Binding Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect Wash Buffer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect Wash Buffer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<b>Conditions for safe storage, including any incompatibilities</b>	: SureSelect Binding Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid

## Section 7. Handling and storage

### SureSelect Wash Buffer 1

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.

### SureSelect Wash Buffer 2

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

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

None.

### **Appropriate engineering controls**

: 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.

#### Skin protection

#### **Hand protection**

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

#### **Body protection**

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

## Section 8. Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : SureSelect Binding Buffer Liquid.  
 SureSelect Wash Buffer 1 Liquid.  
 SureSelect Wash Buffer 2 Liquid.
- Color** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.
- Odor** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.
- Odor threshold** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.
- pH** : SureSelect Binding Buffer 7.5  
 SureSelect Wash Buffer 1 7  
 SureSelect Wash Buffer 2 7
- Melting point/freezing point** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 0°C (32°F)  
 SureSelect Wash Buffer 2 0°C (32°F)
- Boiling point, initial boiling point, and boiling range** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 100°C (212°F)  
 SureSelect Wash Buffer 2 100°C (212°F)

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>SureSelect Binding Buffer</b> Edetic acid	>100	>212	DIN 51758			
<b>SureSelect Wash Buffer 1</b> Citric acid, trisodium salt, dihydrate	>100	>212				
<b>SureSelect Wash Buffer 2</b> Citric acid, trisodium salt, dihydrate	>100	>212				

- Evaporation rate** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.

## Section 9. Physical and chemical properties and safety characteristics

**Flammability** : SureSelect Binding Buffer Not applicable.  
 SureSelect Wash Buffer 1 Not applicable.  
 SureSelect Wash Buffer 2 Not applicable.

**Lower and upper explosion limit/flammability limit** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.

**Vapor pressure** :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>SureSelect Binding Buffer</b>						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
<b>SureSelect Wash Buffer 1</b>						
water	23.8	3.2		92.258	12.3	
Sodium dodecyl sulphate	≤0.0013501	≤0.00018				
<b>SureSelect Wash Buffer 2</b>						
water	23.8	3.2		92.258	12.3	
Sodium dodecyl sulphate	≤0.0013501	≤0.00018				

**Relative vapor density** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.

**Relative density** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.

**Solubility** : SureSelect Binding Buffer Easily soluble in the following materials: cold water and hot water.  
 SureSelect Wash Buffer 1 Easily soluble in the following materials: cold water and hot water.  
 SureSelect Wash Buffer 2 Easily soluble in the following materials: cold water and hot water.

**Partition coefficient: n-octanol/water** : SureSelect Binding Buffer Not applicable.  
 SureSelect Wash Buffer 1 Not applicable.  
 SureSelect Wash Buffer 2 Not applicable.

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
<b>SureSelect Binding Buffer</b>			
Edetic acid	>400	>752	VDI 2263
<b>SureSelect Wash Buffer 1</b>			
Sodium dodecyl sulphate	310.5	590.9	VDI 2263
<b>SureSelect Wash Buffer 2</b>			
Sodium dodecyl sulphate	310.5	590.9	VDI 2263

## Section 9. Physical and chemical properties and safety characteristics

**Decomposition temperature** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.

**Viscosity** : SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer 2 Not available.

### Particle characteristics

**Median particle size** :  SureSelect Binding Buffer Not applicable.  
 SureSelect Wash Buffer 1 Not applicable.  
 SureSelect Wash Buffer 2 Not applicable.

## Section 10. Stability and reactivity

**Reactivity** : SureSelect Binding Buffer No specific test data related to reactivity available for this product or its ingredients.  
 SureSelect Wash Buffer 1 No specific test data related to reactivity available for this product or its ingredients.  
 SureSelect Wash Buffer 2 No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : SureSelect Binding Buffer The product is stable.  
 SureSelect Wash Buffer 1 The product is stable.  
 SureSelect Wash Buffer 2 The product is stable.

**Possibility of hazardous reactions** : SureSelect Binding Buffer Under normal conditions of storage and use, hazardous reactions will not occur.  
 SureSelect Wash Buffer 1 Under normal conditions of storage and use, hazardous reactions will not occur.  
 SureSelect Wash Buffer 2 Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : SureSelect Binding Buffer No specific data.  
 SureSelect Wash Buffer 1 No specific data.  
 SureSelect Wash Buffer 2 No specific data.

**Incompatible materials** : SureSelect Binding Buffer May react or be incompatible with oxidizing materials.  
 SureSelect Wash Buffer 1 May react or be incompatible with oxidizing materials.  
 SureSelect Wash Buffer 2 May react or be incompatible with oxidizing materials.

**Hazardous decomposition products** : SureSelect Binding Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 SureSelect Wash Buffer 1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 SureSelect Wash Buffer 2 Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>SureSelect Binding Buffer</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SureSelect Binding Buffer</b> Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-
	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-

#### Sensitization

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

## Section 11. Toxicological information

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : SureSelect Binding Buffer Not available.  
SureSelect Wash Buffer 1 Not available.  
SureSelect Wash Buffer 2 Not available.

### Potential acute health effects

**Eye contact** : SureSelect Binding Buffer No known significant effects or critical hazards.  
SureSelect Wash Buffer 1 No known significant effects or critical hazards.  
SureSelect Wash Buffer 2 No known significant effects or critical hazards.

**Inhalation** : SureSelect Binding Buffer No known significant effects or critical hazards.  
SureSelect Wash Buffer 1 No known significant effects or critical hazards.  
SureSelect Wash Buffer 2 No known significant effects or critical hazards.

**Skin contact** : SureSelect Binding Buffer No known significant effects or critical hazards.  
SureSelect Wash Buffer 1 No known significant effects or critical hazards.  
SureSelect Wash Buffer 2 No known significant effects or critical hazards.

**Ingestion** : SureSelect Binding Buffer No known significant effects or critical hazards.  
SureSelect Wash Buffer 1 No known significant effects or critical hazards.  
SureSelect Wash Buffer 2 No known significant effects or critical hazards.

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

**Eye contact** : SureSelect Binding Buffer No specific data.  
SureSelect Wash Buffer 1 No specific data.  
SureSelect Wash Buffer 2 No specific data.

**Inhalation** : SureSelect Binding Buffer No specific data.  
SureSelect Wash Buffer 1 No specific data.  
SureSelect Wash Buffer 2 No specific data.

**Skin contact** : SureSelect Binding Buffer No specific data.  
SureSelect Wash Buffer 1 No specific data.  
SureSelect Wash Buffer 2 No specific data.

**Ingestion** : SureSelect Binding Buffer No specific data.  
SureSelect Wash Buffer 1 No specific data.  
SureSelect Wash Buffer 2 No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

## Section 11. Toxicological information

**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

<b>General</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: <input checked="" type="checkbox"/> SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>SureSelect Binding Buffer</b> SureSelect Binding Buffer Sodium chloride	51369.9 3000	N/A N/A	N/A N/A	N/A N/A	N/A N/A
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> SureSelect Binding Buffer Sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 519.6 mg/l Fresh water  Acute EC50 402.6 mg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water  Chronic NOEC 6 g/L Fresh water	Algae - Navicula seminulum Crustaceans - Cypris subglobosa Daphnia - Daphnia magna Aquatic plants - Lemna minor Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling) Aquatic plants - Lemna minor	96 hours 48 hours  48 hours 96 hours 96 hours 3 weeks  96 hours

## Section 12. Ecological information

<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days
	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	Activated sludge
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	-	-	Readily
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	-	-	Readily

### Bioaccumulative potential

## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>SureSelect Wash Buffer 1</b> Sodium dodecyl sulphate	-2.03	-	low
<b>SureSelect Wash Buffer 2</b> Sodium dodecyl sulphate	-2.03	-	low

### Mobility in soil

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

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

## Section 13. Disposal considerations

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

## Section 14. Transport information

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

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

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI** : None of the components are listed.

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

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

## Section 15. Regulatory information

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: <input checked="" type="checkbox"/> All components are active or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.

## Section 16. Other information

### History

**Date of issue/Date of revision** : 06/02/2022

**Date of previous issue** : 09/27/2019

**Version** : 4

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HPR = Hazardous Products Regulations  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available  
UN = United Nations

### Procedure used to derive the classification

Classification	Justification
Not classified.	

**References** : Not available.

Indicates information that has changed from previously issued version.

### 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.