

# SAFETY DATA SHEET

SureSelect XT2 Pre-Capture Box 1 - 12 Reactions, Part Number 5190-7336

## Section 1. Identification

<b>Product identifier</b>	: SureSelect XT2 Pre-Capture Box 1 - 12 Reactions, Part Number 5190-7336		
<b>Part no. (chemical kit)</b>	: 5190-7336		
<b>Part no.</b>	SureSelect XT2 Binding Buffer	5190-4088	
	SureSelect XT2 Wash 1	5190-4089	
	SureSelect XT2 Wash 2	5190-4090	
	SureSelect XT2 Elution Buffer	5190-4206	
	SureSelect XT2 Neutralization Buffer	5190-4207	
<b>Material uses</b>	: Analytical reagent.		
	SureSelect XT2 Binding Buffer	9.6 ml	
	SureSelect XT2 Wash 1	2.4 ml	
	SureSelect XT2 Wash 2	14.4 ml	
	SureSelect XT2 Elution Buffer	0.72 ml	
	SureSelect XT2 Neutralization Buffer	0.72 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

#### **SureSelect XT2 Elution Buffer**

H290 CORROSIVE TO METALS - Category 1  
H320 EYE IRRITATION - Category 2B

#### **SureSelect XT2 Neutralization Buffer**

H315 SKIN IRRITATION - Category 2  
H319 EYE IRRITATION - Category 2A

### GHS label elements

#### **Hazard pictograms**

: SureSelect XT2 Elution Buffer



SureSelect XT2 Neutralization Buffer



## Section 2. Hazard identification

<b>Signal word</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No signal word. No signal word. No signal word. Warning Warning
<b>Hazard statements</b>	: <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer  SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H290 - May be corrosive to metals.  H320 - Causes eye irritation. H315 - Causes skin irritation.  H319 - Causes serious eye irritation.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not applicable. Not applicable. Not applicable. P234 - Keep only in original packaging.  P280 - Wear eye or face protection.  P264 - Wash thoroughly after handling.
<b>Response</b>	: <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer  SureSelect XT2 Neutralization Buffer	Not applicable. Not applicable. Not applicable. P390 - Absorb spillage to prevent material damage.  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 advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. 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 advice or attention.
<b>Storage</b>	: <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

## Section 2. Hazard identification

<b>Disposal</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer SureSelect XT2 Neutralization Buffer	None known. None known. None known. None known. None known. Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 15.8%
<b>Other hazards which do not result in classification</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	None known. None known. None known. None known. None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Mixture Mixture Mixture Mixture Mixture
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Ingredient name	% (w/w)	CAS number
<b>SureSelect XT2 Binding Buffer</b> Sodium chloride	3 - 7	7647-14-5
<b>SureSelect XT2 Wash 1</b> Sodium dodecyl sulphate	<0.1	151-21-3
<b>SureSelect XT2 Wash 2</b> Sodium dodecyl sulphate	<0.1	151-21-3
<b>SureSelect XT2 Elution Buffer</b> Sodium hydroxide	0.1 - 1	1310-73-2
<b>SureSelect XT2 Neutralization Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	10 - 30	1185-53-1

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.

## Section 3. Composition/information on ingredients

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 XT2 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 XT2 Wash 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 XT2 Wash 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.
	SureSelect XT2 Elution Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	SureSelect XT2 Neutralization Buffer	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.
<b>Inhalation</b>	: SureSelect XT2 Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT2 Elution Buffer	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.
	SureSelect XT2 Neutralization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person

## Section 4. First-aid measures

		may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	: SureSelect XT2 Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT2 Elution Buffer	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.
	SureSelect XT2 Neutralization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: SureSelect XT2 Binding Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect XT2 Wash 2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect XT2 Elution Buffer	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	SureSelect XT2 Neutralization Buffer	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a

## Section 4. First-aid measures

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

<b>Eye contact</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation.  Causes serious eye irritation.
<b>Inhalation</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.  No known significant effects or critical hazards. 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 XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  Causes skin irritation.
<b>Ingestion</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.  No known significant effects or critical hazards. 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

## Section 4. First-aid measures

<b>Eye contact</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	Adverse symptoms may include the following:  irritation watering redness
	SureSelect XT2 Neutralization Buffer	Adverse symptoms may include the following:  pain or irritation watering redness
<b>Inhalation</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	No specific data.
	SureSelect XT2 Neutralization Buffer	No specific data.
<b>Skin contact</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	No specific data.
	SureSelect XT2 Neutralization Buffer	Adverse symptoms may include the following:  irritation redness
<b>Ingestion</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	No specific data.
	SureSelect XT2 Neutralization Buffer	No specific data.

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

<b>Notes to physician</b>	: SureSelect XT2 Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect XT2 Wash 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect XT2 Wash 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect XT2 Elution Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect XT2 Neutralization Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## Section 4. First-aid measures

<b>Specific treatments</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1  SureSelect XT2 Wash 2  SureSelect XT2 Elution Buffer  SureSelect XT2 Neutralization Buffer	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. 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. 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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1  SureSelect XT2 Wash 2  SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	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. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	None known. None known. None known. None known.

### Specific hazards arising from the chemical

: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1  SureSelect XT2 Wash 2  SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	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. 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.
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## Section 5. Fire-fighting measures

<b>Hazardous thermal decomposition products</b>	: SureSelect XT2 Binding Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	No specific data.
	SureSelect XT2 Neutralization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
<b>Special protective actions for fire-fighters</b>	: SureSelect XT2 Binding Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Wash 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Wash 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.
	SureSelect XT2 Elution 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 Neutralization 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.
<b>Special protective equipment for fire-fighters</b>	: SureSelect XT2 Binding Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect XT2 Wash 1	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 Wash 2	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 Elution 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 Neutralization Buffer	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 XT2 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 XT2 Wash 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 XT2 Wash 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.
	SureSelect XT2 Elution 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	SureSelect XT2 Neutralization 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: SureSelect XT2 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 XT2 Wash 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 XT2 Wash 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".
	SureSelect XT2 Elution 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 XT2 Neutralization 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".

## Section 6. Accidental release measures

<b>Environmental precautions</b>	: SureSelect XT2 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 XT2 Wash 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 XT2 Wash 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).
	SureSelect XT2 Elution 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 XT2 Neutralization 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).

### Methods and materials for containment and cleaning up

<b>Methods for cleaning up</b>	: SureSelect XT2 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 XT2 Wash 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 XT2 Wash 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.
	SureSelect XT2 Elution Buffer	Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
	SureSelect XT2 Neutralization 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.

## Section 7. Handling and storage

### Precautions for safe handling

<b>Protective measures</b>	: SureSelect XT2 Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect XT2 Wash 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect XT2 Wash 2	Put on appropriate personal protective equipment (see Section 8).
	SureSelect XT2 Elution Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
	SureSelect XT2 Neutralization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
<b>Advice on general occupational hygiene</b>	: SureSelect XT2 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 XT2 Wash 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 XT2 Wash 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.
	SureSelect XT2 Elution 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 XT2 Neutralization 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

## Section 7. Handling and storage

### Conditions for safe storage, including any incompatibilities

SureSelect XT2 Binding Buffer

additional information on hygiene measures.

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 XT2 Wash 1

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

SureSelect XT2 Wash 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.

SureSelect XT2 Elution 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. Store in a corrosion resistant container with a resistant inner liner. Separate from acids. Keep away from metals. 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 XT2 Neutralization Buffer

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

## Section 7. Handling and storage

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
SureSelect XT2 Elution Buffer Sodium hydroxide	<b>CA Alberta Provincial (Canada, 6/2018).</b> C: 2 mg/m <sup>3</sup> <b>CA British Columbia Provincial (Canada, 5/2019).</b> C: 2 mg/m <sup>3</sup> <b>CA Ontario Provincial (Canada, 1/2018).</b> C: 2 mg/m <sup>3</sup> <b>CA Quebec Provincial (Canada, 1/2014).</b> STEV: 2 mg/m <sup>3</sup> 15 minutes. <b>CA Saskatchewan Provincial (Canada, 7/2013).</b> CEIL: 2 mg/m <sup>3</sup>

- 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.
- 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

<b>Physical state</b>	SureSelect XT2 Binding Buffer	Liquid.
	SureSelect XT2 Wash 1	Liquid.
	SureSelect XT2 Wash 2	Liquid.
	SureSelect XT2 Elution Buffer	Liquid.
	SureSelect XT2 Neutralization Buffer	Liquid.
<b>Color</b>	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Odor</b>	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Odor threshold</b>	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>pH</b>	SureSelect XT2 Binding Buffer	7.5
	SureSelect XT2 Wash 1	7
	SureSelect XT2 Wash 2	7
	SureSelect XT2 Elution Buffer	12.2 to 13.4
	SureSelect XT2 Neutralization Buffer	7.5
<b>Melting point</b>	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	0°C (32°F)
	SureSelect XT2 Wash 2	0°C (32°F)
	SureSelect XT2 Elution Buffer	0°C (32°F)
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Boiling point</b>	SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	100°C (212°F)
	SureSelect XT2 Wash 2	100°C (212°F)
	SureSelect XT2 Elution Buffer	100°C (212°F)
	SureSelect XT2 Neutralization Buffer	Not available.

## Section 9. Physical and chemical properties

<b>Flash point</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Evaporation rate</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Flammability (solid, gas)</b>	: SureSelect XT2 Binding Buffer	Not applicable.
	SureSelect XT2 Wash 1	Not applicable.
	SureSelect XT2 Wash 2	Not applicable.
	SureSelect XT2 Elution Buffer	Not applicable.
	SureSelect XT2 Neutralization Buffer	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Vapor pressure</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Vapor density</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Relative density</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.

## Section 9. Physical and chemical properties

<b>Solubility</b>	: SureSelect XT2 Binding Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT2 Wash 1	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT2 Wash 2	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT2 Elution Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT2 Neutralization Buffer	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Auto-ignition temperature</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Decomposition temperature</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.
<b>Viscosity</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Not available.
	SureSelect XT2 Neutralization Buffer	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: SureSelect XT2 Binding Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT2 Wash 1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT2 Wash 2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT2 Elution Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT2 Neutralization Buffer	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

<b>Chemical stability</b>	: SureSelect XT2 Binding Buffer	The product is stable.
	SureSelect XT2 Wash 1	The product is stable.
	SureSelect XT2 Wash 2	The product is stable.
	SureSelect XT2 Elution Buffer	The product is stable.
	SureSelect XT2 Neutralization Buffer	The product is stable.
<b>Possibility of hazardous reactions</b>	: SureSelect XT2 Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect XT2 Wash 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect XT2 Wash 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect XT2 Elution Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect XT2 Neutralization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	No specific data.
	SureSelect XT2 Neutralization Buffer	No specific data.
<b>Incompatible materials</b>	: SureSelect XT2 Binding Buffer	May react or be incompatible with oxidizing materials.
	SureSelect XT2 Wash 1	May react or be incompatible with oxidizing materials.
	SureSelect XT2 Wash 2	May react or be incompatible with oxidizing materials.
	SureSelect XT2 Elution Buffer	Reactive or incompatible with the following materials:  acids metals
	SureSelect XT2 Neutralization Buffer	May react or be incompatible with oxidizing materials.
<b>Hazardous decomposition products</b>	: SureSelect XT2 Binding Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT2 Wash 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT2 Wash 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT2 Elution Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT2 Neutralization Buffer	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 XT2 Binding Buffer</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
<b>SureSelect XT2 Wash 1</b> Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
<b>SureSelect XT2 Wash 2</b> Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
<b>SureSelect XT2 Elution Buffer</b> Sodium hydroxide	LD50 Dermal	Rabbit	1350 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>SureSelect XT2 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 XT2 Wash 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 XT2 Wash 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	-
<b>SureSelect XT2 Elution</b>	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-

## Section 11. Toxicological information

Buffer					
Sodium hydroxide	Eyes - Severe irritant	Rabbit	-	24 hours 50 ug	-
	Eyes - Severe irritant	Rabbit	-	1 %	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
	Skin - Severe irritant	Rabbit	-	1 mg 24 hours 500 mg	-

### Sensitization

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<input checked="" type="checkbox"/> <b>SureSelect XT2 Wash 1</b> Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
<b>SureSelect XT2 Wash 2</b> Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
<b>SureSelect XT2 Elution Buffer</b> Sodium hydroxide	Category 3	-	Respiratory tract irritation
<b>SureSelect XT2 Neutralization Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on the likely routes of exposure</b>	: SureSelect XT2 Binding Buffer	Not available.
	SureSelect XT2 Wash 1	Not available.
	SureSelect XT2 Wash 2	Not available.
	SureSelect XT2 Elution Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	SureSelect XT2 Neutralization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

## Section 11. Toxicological information

<b>Eye contact</b>	: SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect XT2 Elution Buffer	Causes eye irritation.
	SureSelect XT2 Neutralization Buffer	Causes serious eye irritation.
<b>Inhalation</b>	: SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect XT2 Elution Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.
<b>Skin contact</b>	: SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect XT2 Elution Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Neutralization Buffer	Causes skin irritation.
<b>Ingestion</b>	: SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect XT2 Elution Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.

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

<b>Eye contact</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	Adverse symptoms may include the following:  irritation watering redness
	SureSelect XT2 Neutralization Buffer	Adverse symptoms may include the following:  pain or irritation watering redness
<b>Inhalation</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	No specific data.
	SureSelect XT2 Neutralization Buffer	No specific data.

## Section 11. Toxicological information

<b>Skin contact</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	No specific data.
	SureSelect XT2 Neutralization Buffer	Adverse symptoms may include the following:  irritation redness
<b>Ingestion</b>	: SureSelect XT2 Binding Buffer	No specific data.
	SureSelect XT2 Wash 1	No specific data.
	SureSelect XT2 Wash 2	No specific data.
	SureSelect XT2 Elution Buffer	No specific data.
	SureSelect XT2 Neutralization Buffer	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

<b>General</b>	: SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect XT2 Elution Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect XT2 Elution Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: SureSelect XT2 Binding Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Wash 1	No known significant effects or critical hazards.
	SureSelect XT2 Wash 2	No known significant effects or critical hazards.
	SureSelect XT2 Elution Buffer	No known significant effects or critical hazards.
	SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Teratogenicity</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. 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 XT2 Binding Buffer</b> SureSelect XT2 Binding Buffer Sodium chloride	51724.1 3000	N/A N/A	N/A N/A	N/A N/A	N/A N/A
<b>SureSelect XT2 Wash 1</b> Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
<b>SureSelect XT2 Wash 2</b> Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
<b>SureSelect XT2 Elution Buffer</b> Sodium hydroxide	N/A	1350	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

## Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
<b>SureSelect XT2 Binding Buffer</b> Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	21 days 8 weeks
<b>SureSelect XT2 Wash 1</b> Sodium dodecyl sulphate	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
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC >1357 µg/l Fresh water	Daphnia - Daphnia magna - Neonate Fish - Pimephales promelas	21 days 42 days
<b>SureSelect XT2 Wash 2</b> Sodium dodecyl sulphate	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
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water Chronic NOEC >1357 µg/l Fresh water	Daphnia - Daphnia magna - Neonate Fish - Pimephales promelas	21 days 42 days
<b>SureSelect XT2 Elution Buffer</b> Sodium hydroxide	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>SureSelect XT2 Elution Buffer</b> Sodium hydroxide	-	-	Readily

## Section 12. Ecological information

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>SureSelect XT2 Wash 1</b> Sodium dodecyl sulphate	-2.03	-	low
<b>SureSelect XT2 Wash 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.

## Section 15. Regulatory information

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

Not listed.

### 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 (ENCS)</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** : 03/02/2020

**Date of previous issue** : 03/06/2018

**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
<input checked="" type="checkbox"/> <b>SureSelect XT2 Elution Buffer</b> CORROSIVE TO METALS - Category 1 EYE IRRITATION - Category 2B	Expert judgment Expert judgment
<input checked="" type="checkbox"/> <b>SureSelect XT2 Neutralization Buffer</b> SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A	Calculation method Calculation method

**References** : Not available.

## Section 16. Other information

✔ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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