

SAFETY DATA SHEET



SureSelect XT2 Pre-Capture Box 1 - 60 Reactions, Part Number 5190-7337

Section 1. Identification

1.1 Product identifier

Product name : SureSelect XT2 Pre-Capture Box 1 - 60 Reactions, Part Number 5190-7337
Part No. (Chemical Kit) : 5190-7337
Part No. : SureSelect XT2 Binding Buffer 5190-4091
 SureSelect XT2 Wash 1 5190-4092
 SureSelect XT2 Wash 2 5190-4093
 SureSelect XT2 Elution Buffer 5190-4208
 SureSelect XT2 Neutralization Buffer 5190-4209

Validation date : 2/5/2016

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

Material uses : Analytical reagent.
 SureSelect XT2 Binding Buffer 48 ml
 SureSelect XT2 Wash 1 12 ml
 SureSelect XT2 Wash 2 72 ml
 SureSelect XT2 Elution Buffer 3.6 ml
 SureSelect XT2 Neutralization Buffer 3.6 ml

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : <input checked="" type="checkbox"/> SureSelect XT2 Binding Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect XT2 Wash 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect XT2 Wash 2	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect XT2 Elution Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
SureSelect XT2	This material is considered hazardous by the OSHA

Section 2. Hazards identification

Neutralization Buffer

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

SureSelect XT2 Elution Buffer

H314 SKIN CORROSION - Category 1
 H318 SERIOUS EYE DAMAGE - Category 1

SureSelect XT2 Neutralization Buffer

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

Ingredients of unknown toxicity : 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 Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 15.8%

2.2 GHS label elements

Hazard pictograms



Signal word

: SureSelect XT2 Binding Buffer No signal word.
 SureSelect XT2 Wash 1 No signal word.
 SureSelect XT2 Wash 2 No signal word.
 SureSelect XT2 Elution Buffer Danger
 SureSelect XT2 Neutralization Buffer Warning

Hazard statements

: 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 GHS SYMBOL - **Corrosion** -
 H314 - Causes severe skin burns and eye damage.
 SureSelect XT2 Neutralization Buffer GHS SYMBOL - **Exclamation mark** -
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.

Precautionary statements

Prevention

: SureSelect XT2 Binding Buffer Not applicable.
 SureSelect XT2 Wash 1 Not applicable.
 SureSelect XT2 Wash 2 Not applicable.
 SureSelect XT2 Elution Buffer P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P264 - Wash hands thoroughly after handling.
 SureSelect XT2 Neutralization Buffer P280 - Wear protective gloves. Wear eye or face protection.
 P264 - Wash hands thoroughly after handling.

Response

: SureSelect XT2 Binding Buffer Not applicable.
 SureSelect XT2 Wash 1 Not applicable.
 SureSelect XT2 Wash 2 Not applicable.
 SureSelect XT2 Elution Buffer P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.
 P301 + P310 + P330 + P331 - IF SWALLOWED:

Section 2. Hazards identification

Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
 P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
 P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
 P332 + P313 - If skin irritation occurs: Get medical attention.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical attention.

SureSelect XT2 Neutralization Buffer

Not applicable.
 Not applicable.
 Not applicable.
 P405 - Store locked up.
 Not applicable.

Storage

- : SureSelect XT2 Binding Buffer
- SureSelect XT2 Wash 1
- SureSelect XT2 Wash 2
- SureSelect XT2 Elution Buffer
- SureSelect XT2 Neutralization Buffer

Disposal

- : SureSelect XT2 Binding Buffer
- SureSelect XT2 Wash 1
- SureSelect XT2 Wash 2
- SureSelect XT2 Elution Buffer

Not applicable.
 Not applicable.
 Not applicable.
 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
 Not applicable.

Supplemental label elements

- : SureSelect XT2 Neutralization Buffer
- : 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.
 Do not taste or swallow. Wash thoroughly after handling.
 None known.

2.3 Other hazards

Hazards not otherwise classified

- : 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.
 Causes digestive tract burns.
 None known.

Section 3. Composition/information on ingredients

Substance/mixture	: SureSelect XT2 Binding Buffer	Mixture
	SureSelect XT2 Wash 1	Mixture
	SureSelect XT2 Wash 2	Mixture
	SureSelect XT2 Elution Buffer	Mixture
	SureSelect XT2 Neutralization Buffer	Mixture

Ingredient name	%	CAS number
SureSelect XT2 Binding Buffer Sodium chloride	<10	7647-14-5
SureSelect XT2 Elution Buffer Sodium hydroxide	≤1	1310-73-2
SureSelect XT2 Neutralization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - <20	1185-53-1

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: SureSelect 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	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
	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.
Inhalation	: 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

Section 4. First aid measures

	SureSelect XT2 Elution Buffer	attention if symptoms occur. Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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 may need to be kept under medical surveillance for 48 hours.
Skin contact	: 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	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. 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.

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Ingestion	: 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	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

Eye contact	: 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 serious eye damage. Causes serious eye irritation.
Inhalation	: <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. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: <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. Causes severe burns. Causes skin irritation.
Ingestion	: <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. Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards.

Over-exposure signs/symptoms

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

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Ingestion	: 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: stomach pains
	SureSelect XT2 Neutralization Buffer	No specific data.

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

Notes to physician	: 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.
Specific treatments	: SureSelect XT2 Binding Buffer	No specific treatment.
	SureSelect XT2 Wash 1	No specific treatment.
	SureSelect XT2 Wash 2	No specific treatment.
	SureSelect XT2 Elution Buffer	No specific treatment.
	SureSelect XT2 Neutralization Buffer	No specific treatment.
Protection of first-aiders	: SureSelect XT2 Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Wash 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Wash 2	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT2 Elution Buffer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	SureSelect XT2 Neutralization Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: SureSelect XT2 Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Wash 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Wash 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Elution Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT2 Neutralization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: 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

5.3 Advice for firefighters

Special protective actions for fire-fighters	: 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.

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	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.
Special protective equipment for fire-fighters	: 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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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	<p>SureSelect XT2 Neutralization Buffer</p>	<p>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.</p>
<p>For emergency responders :</p>	<p>☒ SureSelect XT2 Binding Buffer</p> <p>SureSelect XT2 Wash 1</p> <p>SureSelect XT2 Wash 2</p> <p>SureSelect XT2 Elution Buffer</p> <p>SureSelect XT2 Neutralization Buffer</p>	<p>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".</p> <p>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".</p> <p>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".</p> <p>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".</p> <p>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".</p>
<p>6.2 Environmental precautions</p>	<p>: SureSelect XT2 Binding Buffer</p> <p>SureSelect XT2 Wash 1</p> <p>SureSelect XT2 Wash 2</p> <p>SureSelect XT2 Elution Buffer</p> <p>SureSelect XT2 Neutralization Buffer</p>	<p>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).</p> <p>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).</p> <p>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).</p> <p>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).</p> <p>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).</p>

6.3 Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Methods for cleaning up	: 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. 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

7.1 Precautions for safe handling

Protective measures	: 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 get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.
	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.

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Advice on general occupational hygiene	: 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 additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: SureSelect XT2 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 environmental contamination.
	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.
	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

Section 7. Handling and storage

SureSelect XT2 Elution Buffer

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.

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 locked up. Separate from acids. 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.

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.

7.3 Specific end use(s)

Recommendations

- : SureSelect XT2 Binding Buffer Industrial applications, Professional applications.
- SureSelect XT2 Wash 1 Industrial applications, Professional applications.
- SureSelect XT2 Wash 2 Industrial applications, Professional applications.
- SureSelect XT2 Elution Buffer Industrial applications, Professional applications.
- SureSelect XT2 Neutralization Buffer Industrial applications, Professional applications.

Industrial sector specific solutions

- : 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.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SureSelect XT2 Binding Buffer Sodium chloride	None.
SureSelect XT2 Elution Buffer Sodium hydroxide	ACGIH TLV (United States, 3/2015). C: 2 mg/m ³ OSHA PEL 1989 (United States, 3/1989). CEIL: 2 mg/m ³ NIOSH REL (United States, 10/2013).

Section 8. Exposure controls/personal protection

SureSelect XT2 Neutralization Buffer

2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

CEIL: 2 mg/m³
OSHA PEL (United States, 2/2013).
 TWA: 2 mg/m³ 8 hours.

None.

8.2 Exposure controls

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Section 9. Physical and chemical properties

Physical state	: 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.
Color	: 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.
Odor	: 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.
Odor threshold	: 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.
pH	: 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
Melting point	: 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.
Boiling point	: 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.
Flash point	: 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.
Evaporation rate	: 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

Flammability (solid, gas)	: 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.
Lower and upper explosive (flammable) limits	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not available. Not available. Not available. Not available. Not available.
Vapor pressure	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not available. Not available. Not available. Not available. Not available.
Vapor density	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not available. Not available. Not available. Not available. Not available.
Relative density	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not available. Not available. Not available. Not available. Not available.
Solubility	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not available. Not available. Not available. Not available. Not available.
Auto-ignition temperature	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	Not available. Not available. Not available. Not available. Not available.

Section 9. Physical and chemical properties

Decomposition temperature	: 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.
Viscosity	: 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

10.1 Reactivity	: 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.
10.2 Chemical stability	: 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.
10.3 Possibility of hazardous reactions	: 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.
10.4 Conditions to avoid	: 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 10. Stability and reactivity

10.5 Incompatible materials	: 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
	SureSelect XT2 Neutralization Buffer	May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products	: 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

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect XT2 Binding Buffer Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect XT2 Binding Buffer Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
SureSelect XT2 Elution Buffer Sodium hydroxide	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

Section 11. Toxicological information

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<input checked="" type="checkbox"/> SureSelect XT2 Neutralization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

- 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

Eye contact

- 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 serious eye damage.
- SureSelect XT2 Neutralization Buffer Causes serious eye irritation.

Inhalation

- 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.

Skin contact

- 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 severe burns.
- SureSelect XT2 Neutralization Buffer Causes skin irritation.

Section 11. Toxicological information

Ingestion	: 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. Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards.
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Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No specific data. No specific data. No specific data. No specific data. No specific data.
Skin contact	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur Adverse symptoms may include the following: irritation redness
Ingestion	: SureSelect XT2 Binding Buffer SureSelect XT2 Wash 1 SureSelect XT2 Wash 2 SureSelect XT2 Elution Buffer SureSelect XT2 Neutralization Buffer	No specific data. No specific data. No specific data. Adverse symptoms may include the following: stomach pains 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

Section 11. Toxicological information

General	: 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.
Carcinogenicity	: 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.
Mutagenicity	: 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.
Teratogenicity	: 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.
Developmental effects	: 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.
Fertility effects	: 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

Route	ATE value
SureSelect XT2 Binding Buffer Oral	51724.1 mg/kg

Section 12. Ecological information

12.1 Toxicity

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
SureSelect XT2 Binding Buffer Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm ³ Fresh water	Algae - Pseudokirchneriella subcapitata	72 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 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 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	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
SureSelect XT2 Elution Buffer Sodium hydroxide	Acute EC50 40.38 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

Section 13. Disposal considerations




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

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



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

Section 14. Transport information

Additional information : **Special provisions**
251, 340

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT	UN3316	Chemical kits	9	II		<p>Limited quantity Yes.</p> <p>Packaging instruction Passenger aircraft Quantity limitation: 10 kg</p> <p>Cargo aircraft Quantity limitation: 10 kg</p> <p>Special provisions 15</p>
TDG	UN3316	-	9	II		<p>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9).</p> <p>Passenger Carrying Road or Rail Index 10</p> <p>Special provisions 65, 141</p>
Mexico	UN3316	-	9	II		<p>Special provisions 251, 340</p>

Section 14. Transport information

IMDG	UN3316	CHEMICAL KIT	-			Emergency schedules (EmS) F-A, S-P Special provisions 251, 340
IATA	UN3316	Chemical kit	9			Passenger and Cargo Aircraft Quantity limitation: 10 kg Packaging instructions: 960 Cargo Aircraft Only Quantity limitation: 10 kg Packaging instructions: 960 Limited Quantities - Passenger Aircraft Quantity limitation: 1 kg Packaging instructions: Y960 Special provisions A44, A163

PG* : Packing group

Section 15. Regulatory information

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

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

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Section 15. Regulatory information

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
SureSelect XT2 Binding Buffer Sodium chloride	<10	No.	No.	No.	Yes.	No.
SureSelect XT2 Elution Buffer Sodium hydroxide	≤1	No.	No.	No.	Yes.	No.
SureSelect XT2 Neutralization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - <20	No.	No.	No.	Yes.	No.

State regulations

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

California Prop. 65

No products were found.

- Canada inventory** : All components are listed or exempted.

International regulations

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

- Chemical Weapons Convention List Schedule I Chemicals** : Not listed

Chemical Weapons Convention List Schedule II Chemicals

- : Not listed

Chemical Weapons Convention List Schedule III Chemicals

- : Not listed

Section 16. Other information

History

Date of issue : 02/05/2016

Date of previous issue : 05/23/2014.

Version : 2

✔ Indicates information that has changed from previously issued version.

Notice to reader

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