

# SAFETY DATA SHEET

SureSelect Target Enrichment-Box 1 - 480 Reactions, Part Number 5190-4395

## Section 1. Identification

**Product identifier** : SureSelect Target Enrichment-Box 1 - 480 Reactions, Part Number 5190-4395

**Part no. (chemical kit)** : 5190-4395

**Part no.** :

<input checked="" type="checkbox"/> SureSelect Hyb 1	5190-4412
SureSelect Hyb 2	5190-4397
SureSelect Hyb 4	5190-4414
SureSelect Binding Buffer	5190-4415
SureSelect Wash Buffer 1	5190-4416
SureSelect Wash Buffer	5190-4417
SureSelect Elution Buffer	5190-4418
SureSelect Neutralization Buffer	5190-4419

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

**Identified uses** :

<input checked="" type="checkbox"/> Analytical reagent.	
<input checked="" type="checkbox"/> SureSelect Hyb 1	12 ml
SureSelect Hyb 2	1.25 ml
SureSelect Hyb 4	6.25 ml
SureSelect Binding Buffer	400 ml
SureSelect Wash Buffer 1	240 ml
SureSelect Wash Buffer	720 ml
SureSelect Elution Buffer	29 ml
SureSelect Neutralization Buffer	29 ml

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

**Emergency telephone number (with hours of operation)** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazard identification

### Classification of the substance or mixture

#### SureSelect Hyb 2



H319 EYE IRRITATION - Category 2A  
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### SureSelect Elution Buffer

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

### GHS label elements

## Section 2. Hazard identification

<b>Hazard pictograms</b>	: SureSelect Hyb 2	
	SureSelect Elution Buffer	
<b>Signal word</b>	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	No signal word. Warning No signal word. No signal word. No signal word. No signal word. Warning No signal word.
<b>Hazard statements</b>	: SureSelect Hyb 1 SureSelect Hyb 2  SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer  SureSelect Neutralization Buffer	No known significant effects or critical hazards. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. 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. H290 - May be corrosive to metals. H320 - Causes eye irritation. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: SureSelect Hyb 1 SureSelect Hyb 2  SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	Not applicable. P280 - Wear eye or face protection. P260 - Do not breathe vapor. Not applicable. Not applicable. Not applicable. Not applicable. P234 - Keep only in original packaging. Not applicable.
<b>Response</b>	: SureSelect Hyb 1 SureSelect Hyb 2  SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer	Not applicable. P314 - Get medical advice or attention if you feel unwell. 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. Not applicable. 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

## Section 2. Hazard identification

	SureSelect Neutralization Buffer	advice or attention. Not applicable.
<b>Storage</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1 SureSelect Hyb 2	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer  <input checked="" type="checkbox"/> SureSelect Hyb 4	None known. None known. None known. 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: 1%
<b>Other hazards which do not result in classification</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	None known. None known. None known. None known. None known. None known. None known. None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture
--------------------------	--	--

## Section 3. Composition/information on ingredients

Ingredient name	Synonyms	% (w/w)	CAS number
<b>SureSelect Hyb 1</b> Sodium dihydrogenorthophosphate	Sodium phosphate, monobasic	≥1 - ≤5	7558-80-7
<b>SureSelect Hyb 2</b> Edetic acid	EDTA	≥10 - ≤30	60-00-4
<b>SureSelect Hyb 4</b> Sulfuric acid monododecyl ester sodium salt (1:1)	Sodium Dodecyl Sulfate	≥1 - ≤5	8012-56-4
<b>SureSelect Elution Buffer</b> Sodium hydroxide	Sodium Hydroxide	≥0.1 - ≤1	1310-73-2

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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

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

## Section 4. First-aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: SureSelect Hyb 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 Hyb 2	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.
	SureSelect Hyb 4	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 Binding Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Wash Buffer 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Wash Buffer	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 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.

## Section 4. First-aid measures

	SureSelect Neutralization 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.
<b>Inhalation</b>	: SureSelect Hyb 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Hyb 2	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 following exposure or if feeling unwell. 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.
	SureSelect Hyb 4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Wash Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect 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 Neutralization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	: SureSelect Hyb 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Hyb 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SureSelect Hyb 4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

## Section 4. First-aid measures

	SureSelect Binding Buffer	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect 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 Neutralization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: SureSelect Hyb 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Hyb 2	Wash out mouth with water. Remove dentures if any. 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 following exposure or if feeling unwell. 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 Hyb 4	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Binding Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Wash Buffer 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Wash Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Elution Buffer	Wash out mouth with water. Remove dentures if any. 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

## Section 4. First-aid measures

SureSelect Neutralization Buffer

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.

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

#### Potential acute health effects

##### Eye contact

: SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer  
SureSelect Elution Buffer  
SureSelect Neutralization Buffer

No known significant effects or critical hazards. Causes serious eye irritation.

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 eye irritation.

No known significant effects or critical hazards.

##### Inhalation

: SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer  
SureSelect Elution Buffer  
SureSelect 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. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

##### Skin contact

: SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer  
SureSelect Elution Buffer  
SureSelect 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. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

##### Ingestion

: SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer  
SureSelect Elution Buffer  
SureSelect 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. 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 Hyb 1	No specific data.	
	SureSelect Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness	
	SureSelect Hyb 4	No specific data.	
	SureSelect Binding Buffer	No specific data.	
	SureSelect Wash Buffer 1	No specific data.	
	SureSelect Wash Buffer	No specific data.	
	SureSelect Elution Buffer	Adverse symptoms may include the following: irritation watering redness	
	SureSelect Neutralization Buffer	No specific data.	
	<b>Inhalation</b>	: SureSelect Hyb 1	No specific data.
	SureSelect Hyb 2	No specific data.	
SureSelect Hyb 4	No specific data.		
SureSelect Binding Buffer	No specific data.		
SureSelect Wash Buffer 1	No specific data.		
SureSelect Wash Buffer	No specific data.		
SureSelect Elution Buffer	No specific data.		
SureSelect Neutralization Buffer	No specific data.		
<b>Skin contact</b>	: SureSelect Hyb 1	No specific data.	
	SureSelect Hyb 2	No specific data.	
	SureSelect Hyb 4	No specific data.	
	SureSelect Binding Buffer	No specific data.	
	SureSelect Wash Buffer 1	No specific data.	
	SureSelect Wash Buffer	No specific data.	
	SureSelect Elution Buffer	No specific data.	
SureSelect Neutralization Buffer	No specific data.		
<b>Ingestion</b>	: SureSelect Hyb 1	No specific data.	
	SureSelect Hyb 2	No specific data.	
	SureSelect Hyb 4	No specific data.	
	SureSelect Binding Buffer	No specific data.	
	SureSelect Wash Buffer 1	No specific data.	
	SureSelect Wash Buffer	No specific data.	
	SureSelect Elution Buffer	No specific data.	
	SureSelect Neutralization Buffer	No specific data.	

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

<b>Notes to physician</b>	: SureSelect Hyb 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Hyb 2	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.
	SureSelect Hyb 4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

## Section 4. First-aid measures

	SureSelect Wash Buffer	ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Elution Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect 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.
<b>Specific treatments</b>	: SureSelect Hyb 1	No specific treatment.
	SureSelect Hyb 2	No specific treatment.
	SureSelect Hyb 4	No specific treatment.
	SureSelect Binding Buffer	No specific treatment.
	SureSelect Wash Buffer 1	No specific treatment.
	SureSelect Wash Buffer	No specific treatment.
	SureSelect Elution Buffer	No specific treatment.
	SureSelect Neutralization Buffer	No specific treatment.
<b>Protection of first-aiders</b>	: SureSelect Hyb 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Hyb 2	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SureSelect Hyb 4	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Wash Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Elution Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SureSelect Neutralization Buffer	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures



### Extinguishing media

<b>Suitable extinguishing media</b>	: SureSelect Hyb 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Hyb 2	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Hyb 4	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Elution Buffer	Use an extinguishing agent suitable for the surrounding fire.

## Section 5. Fire-fighting measures

<b>Unsuitable extinguishing media</b>	SureSelect Neutralization Buffer SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	surrounding fire. Use an extinguishing agent suitable for the surrounding fire. None known. None known. None known. None known. None known. None known. None known.
<b>Specific hazards arising from the chemical</b>	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect 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. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides Decomposition products may include the following materials: halogenated compounds metal oxide/oxides No specific data. No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds

## Section 5. Fire-fighting measures

<b>Special protective actions for fire-fighters</b>	:  SureSelect Hyb 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 Hyb 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 Hyb 4	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 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 Wash Buffer 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 Wash 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 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 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 Hyb 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 Hyb 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 Hyb 4	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect 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 Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Wash 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 Elution Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

## Section 5. Fire-fighting measures

SureSelect Neutralization Buffer

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

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

: SureSelect Hyb 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 Hyb 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SureSelect Hyb 4

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 Binding Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

SureSelect Wash Buffer 1

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

SureSelect Wash Buffer

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 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 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. Put on appropriate personal

## Section 6. Accidental release measures

**For emergency responders** : SureSelect Hyb 1

SureSelect Hyb 2

SureSelect Hyb 4

SureSelect Binding Buffer

SureSelect Wash Buffer 1

SureSelect Wash Buffer

SureSelect Elution Buffer

SureSelect Neutralization Buffer

protective equipment.

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".

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".

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".

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".

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".

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".

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".

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".

**Environmental precautions** : SureSelect Hyb 1

SureSelect Hyb 2

SureSelect Hyb 4

SureSelect Binding Buffer

SureSelect Wash Buffer 1

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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).

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).

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).

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).

## Section 6. Accidental release measures

SureSelect Wash 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 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 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

**Methods for cleaning up** : SureSelect Hyb 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 Hyb 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 Hyb 4

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 Binding Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SureSelect Wash Buffer 1

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SureSelect Wash Buffer

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 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

## Section 6. Accidental release measures

SureSelect Neutralization Buffer

of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

: SureSelect Hyb 1

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

SureSelect Hyb 2

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

SureSelect Hyb 4

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

SureSelect Binding Buffer

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

SureSelect Wash Buffer 1

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

SureSelect Wash Buffer

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

SureSelect 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 Neutralization Buffer

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

#### Advice on general occupational hygiene

: SureSelect Hyb 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 Hyb 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 Hyb 4

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

SureSelect Binding Buffer	additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Wash Buffer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Wash Buffer	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 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 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.

**Conditions for safe storage, including any incompatibilities** : SureSelect Hyb 1

SureSelect Hyb 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 Hyb 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 Hyb 4	Store in accordance with local regulations. Store in

## Section 7. Handling and storage

	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 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. See Section 10 for incompatible materials before handling or use.
SureSelect Wash Buffer 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 Wash 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.
SureSelect 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 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

## Section 7. Handling and storage

drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
<b>SureSelect Elution Buffer</b> Sodium hydroxide	<b>CA Alberta Provincial (Canada, 6/2018).</b> C: 2 mg/m <sup>3</sup> <b>CA British Columbia Provincial (Canada, 3/2022).</b> C: 2 mg/m <sup>3</sup> <b>CA Ontario Provincial (Canada, 6/2019).</b> Ceiling Limit: 2 mg/m <sup>3</sup> <b>CA Quebec Provincial (Canada, 6/2021).</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>

### Biological exposure indices

None known.

**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: safety glasses with side-shields.

### Skin protection

## Section 8. Exposure controls/personal protection

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

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

### Appearance

<b>Physical state</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	Liquid.
	SureSelect Hyb 2	Liquid.
	SureSelect Hyb 4	Liquid.
	SureSelect Binding Buffer	Liquid.
	SureSelect Wash Buffer 1	Liquid.
	SureSelect Wash Buffer	Liquid.
	SureSelect Elution Buffer	Liquid.
	SureSelect Neutralization Buffer	Liquid.
<b>Color</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer	Not available.
	SureSelect Elution Buffer	Not available.
	SureSelect Neutralization Buffer	Not available.
<b>Odor</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer	Not available.
	SureSelect Elution Buffer	Not available.
	SureSelect Neutralization Buffer	Not available.

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

**Odor threshold** :  SureSelect Hyb 1 Not available.  
 SureSelect Hyb 2 Not available.  
 SureSelect Hyb 4 Not available.  
 SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer Not available.  
 SureSelect Elution Buffer Not available.  
 SureSelect Neutralization Buffer Not available.

**pH** :  SureSelect Hyb 1 7.4  
 SureSelect Hyb 2 8  
 SureSelect Hyb 4 5.2 to 6.2  
 SureSelect Binding Buffer 7.1 to 8.1  
 SureSelect Wash Buffer 1 6.5 to 7.5  
 SureSelect Wash Buffer 6.8 to 7.8  
 SureSelect Elution Buffer 12.2 to 13.4  
 SureSelect Neutralization Buffer 7.5

**Melting point/freezing point** :  SureSelect Hyb 1 Not available.  
 SureSelect Hyb 2 Not available.  
 SureSelect Hyb 4 0°C (32°F)  
 SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 0°C (32°F)  
 SureSelect Wash Buffer 0°C (32°F)  
 SureSelect Elution Buffer 0°C (32°F)  
 SureSelect Neutralization Buffer Not available.

**Boiling point, initial boiling point, and boiling range** :  SureSelect Hyb 1 Not available.  
 SureSelect Hyb 2 Not available.  
 SureSelect Hyb 4 100°C (212°F)  
 SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 100°C (212°F)  
 SureSelect Wash Buffer 100°C (212°F)  
 SureSelect Elution Buffer 100°C (212°F)  
 SureSelect Neutralization Buffer Not available.

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<input checked="" type="checkbox"/> SureSelect Hyb 2						
Edetic acid	>100	>212	DIN 51758			

**Evaporation rate** :  SureSelect Hyb 1 Not available.  
 SureSelect Hyb 2 Not available.  
 SureSelect Hyb 4 Not available.  
 SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer Not available.  
 SureSelect Elution Buffer Not available.  
 SureSelect Neutralization Buffer Not available.

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

**Flammability** :  SureSelect Hyb 1 Not applicable.  
 SureSelect Hyb 2 Not applicable.  
 SureSelect Hyb 4 Not applicable.  
 SureSelect Binding Buffer Not applicable.  
 SureSelect Wash Buffer 1 Not applicable.  
 SureSelect Wash Buffer Not applicable.  
 SureSelect Elution Buffer Not applicable.  
 SureSelect Neutralization Buffer Not applicable.

**Lower and upper explosion limit/flammability limit** :  SureSelect Hyb 1 Not available.  
 SureSelect Hyb 2 Not available.  
 SureSelect Hyb 4 Not available.  
 SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer Not available.  
 SureSelect Elution Buffer Not available.  
 SureSelect Neutralization Buffer Not available.

**Vapor pressure** :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<input checked="" type="checkbox"/> SureSelect Hyb 1						
water	23.8	3.2		92.258	12.3	
<b>SureSelect Hyb 2</b>						
water	23.8	3.2		92.258	12.3	
Edetic acid	0	0				
<b>SureSelect Hyb 4</b>						
water	23.8	3.2		92.258	12.3	
<b>SureSelect Binding Buffer</b>						
water	23.8	3.2		92.258	12.3	
<b>SureSelect Wash Buffer 1</b>						
water	23.8	3.2		92.258	12.3	
<b>SureSelect Wash Buffer</b>						
water	23.8	3.2		92.258	12.3	
<b>SureSelect Elution Buffer</b>						

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

water	23.8	3.2		92.258	12.3	
<b>SureSelect Neutralization Buffer</b>						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001	

**Relative vapor density** :

- SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 Not available.
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 Not available.
- SureSelect Wash Buffer Not available.
- SureSelect Elution Buffer Not available.
- SureSelect Neutralization Buffer Not available.

**Relative density** :

- SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 Not available.
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 Not available.
- SureSelect Wash Buffer Not available.
- SureSelect Elution Buffer Not available.
- SureSelect Neutralization Buffer Not available.

**Solubility(ies)** :

Media	Result
<input checked="" type="checkbox"/> SureSelect Hyb 1	
water	Soluble
<b>SureSelect Hyb 2</b>	
water	Soluble
<b>SureSelect Hyb 4</b>	
water	Soluble
<b>SureSelect Binding Buffer</b>	
water	Soluble
<b>SureSelect Wash Buffer 1</b>	
water	Soluble
<b>SureSelect Wash Buffer</b>	
water	Soluble
<b>SureSelect Elution Buffer</b>	
water	Soluble
<b>SureSelect Neutralization Buffer</b>	
water	Soluble

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

**Partition coefficient: n-octanol/water** :  SureSelect Hyb 1 Not applicable.  
 SureSelect Hyb 2 Not applicable.  
 SureSelect Hyb 4 Not applicable.  
 SureSelect Binding Buffer Not applicable.  
 SureSelect Wash Buffer 1 Not applicable.  
 SureSelect Wash Buffer Not applicable.  
 SureSelect Elution Buffer Not applicable.  
 SureSelect Neutralization Buffer Not applicable.

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
<input checked="" type="checkbox"/> SureSelect Hyb 2			
Edetic acid	>400	>752	VDI 2263

**Decomposition temperature** :  SureSelect Hyb 1 Not available.  
 SureSelect Hyb 2 Not available.  
 SureSelect Hyb 4 Not available.  
 SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer Not available.  
 SureSelect Elution Buffer Not available.  
 SureSelect Neutralization Buffer Not available.

**Viscosity** :  SureSelect Hyb 1 Not available.  
 SureSelect Hyb 2 Not available.  
 SureSelect Hyb 4 Not available.  
 SureSelect Binding Buffer Not available.  
 SureSelect Wash Buffer 1 Not available.  
 SureSelect Wash Buffer Not available.  
 SureSelect Elution Buffer Not available.  
 SureSelect Neutralization Buffer Not available.

### Particle characteristics

**Median particle size** :  SureSelect Hyb 1 Not applicable.  
 SureSelect Hyb 2 Not applicable.  
 SureSelect Hyb 4 Not applicable.  
 SureSelect Binding Buffer Not applicable.  
 SureSelect Wash Buffer 1 Not applicable.  
 SureSelect Wash Buffer Not applicable.  
 SureSelect Elution Buffer Not applicable.  
 SureSelect Neutralization Buffer Not applicable.

## Section 10. Stability and reactivity

**Reactivity** :  SureSelect Hyb 1 No specific test data related to reactivity available for this product or its ingredients.  
 SureSelect Hyb 2 No specific test data related to reactivity available for this product or its ingredients.  
 SureSelect Hyb 4 No specific test data related to reactivity available for this product or its ingredients.  
 SureSelect Binding Buffer No specific test data related to reactivity available for this product or its ingredients.  
 SureSelect Wash Buffer 1 No specific test data related to reactivity available for this product or its ingredients.  
 SureSelect Wash Buffer No specific test data related to reactivity available for this product or its ingredients.  
 SureSelect Elution Buffer No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

	SureSelect Neutralization Buffer	this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1  SureSelect Hyb 2  SureSelect Hyb 4  SureSelect Binding Buffer  SureSelect Wash Buffer 1  SureSelect Wash Buffer  SureSelect Elution Buffer  SureSelect Neutralization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Incompatible materials</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer  SureSelect Neutralization Buffer	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. Reactive or incompatible with the following materials: acids metals May react or be incompatible with oxidizing materials.

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: SureSelect Hyb 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Hyb 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Hyb 4	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Wash Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Elution Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect 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
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	LD50 Dermal	Rabbit	>7940 mg/kg	-
	LD50 Oral	Rat	8290 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	Eyes - Mild irritant	Rabbit	-	150 mg	-
	SureSelect Elution Buffer Sodium hydroxide	Rabbit	-	1 %	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
	Eyes - Severe irritant	Rabbit	-	1 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 ug	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 mg	-

#### Sensitization

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity


## Section 11. Toxicological information

**Conclusion/Summary** : Not available.


### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
 SureSelect Elution Buffer Sodium hydroxide	Category 3	-	Respiratory tract irritation


### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
 SureSelect Hyb 2 Edetic acid	Category 2	-	kidneys

### Aspiration hazard


Not available.

### Information on the likely routes of exposure


 SureSelect Hyb 1 : Not available.  
SureSelect Hyb 2 : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
SureSelect Hyb 4 : Not available.  
SureSelect Binding Buffer : Not available.  
SureSelect Wash Buffer 1 : Not available.  
SureSelect Wash Buffer : Not available.  
SureSelect Elution Buffer : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
SureSelect Neutralization Buffer : Not available.

### Potential acute health effects

#### Eye contact

 SureSelect Hyb 1 : No known significant effects or critical hazards.  
SureSelect Hyb 2 : Causes serious eye irritation.  
SureSelect Hyb 4 : No known significant effects or critical hazards.  
SureSelect Binding Buffer : No known significant effects or critical hazards.  
SureSelect Wash Buffer 1 : No known significant effects or critical hazards.  
SureSelect Wash Buffer : No known significant effects or critical hazards.  
SureSelect Elution Buffer : Causes eye irritation.  
SureSelect Neutralization Buffer : No known significant effects or critical hazards.

#### Inhalation

 SureSelect Hyb 1 : No known significant effects or critical hazards.  
SureSelect Hyb 2 : No known significant effects or critical hazards.  
SureSelect Hyb 4 : No known significant effects or critical hazards.  
SureSelect Binding Buffer : No known significant effects or critical hazards.  
SureSelect Wash Buffer 1 : No known significant effects or critical hazards.  
SureSelect Wash Buffer : No known significant effects or critical hazards.  
SureSelect Elution Buffer : No known significant effects or critical hazards.  
SureSelect Neutralization Buffer : No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Skin contact</b>	:	☑ SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer	No known significant effects or critical hazards.
		SureSelect Elution Buffer	No known significant effects or critical hazards.
		SureSelect Neutralization Buffer	No known significant effects or critical hazards.
<b>Ingestion</b>	:	☑ SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer	No known significant effects or critical hazards.
		SureSelect Elution Buffer	No known significant effects or critical hazards.
		SureSelect Neutralization Buffer	No known significant effects or critical hazards.

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

<b>Eye contact</b>	:	☑ SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer	No specific data.
		SureSelect Elution Buffer	Adverse symptoms may include the following: irritation watering redness
		SureSelect Neutralization Buffer	No specific data.
<b>Inhalation</b>	:	☑ SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	No specific data.
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer	No specific data.
		SureSelect Elution Buffer	No specific data.
		SureSelect Neutralization Buffer	No specific data.
<b>Skin contact</b>	:	☑ SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	No specific data.
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer	No specific data.
		SureSelect Elution Buffer	No specific data.
		SureSelect Neutralization Buffer	No specific data.

## Section 11. Toxicological information

<b>Ingestion</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	No specific data.
	SureSelect Hyb 2	No specific data.
	SureSelect Hyb 4	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer	No specific data.
	SureSelect Elution Buffer	No specific data.
	SureSelect 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

**General** :  SureSelect Hyb 1  
SureSelect Hyb 2

No known significant effects or critical hazards.  
May cause damage to organs through prolonged or repeated exposure.

SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer  
SureSelect Elution Buffer  
SureSelect 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.  
No known significant effects or critical hazards.

**Carcinogenicity** :  SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer  
SureSelect Elution Buffer  
SureSelect 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.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Mutagenicity** :  SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer  
SureSelect Elution Buffer  
SureSelect 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.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Reproductive toxicity** :  SureSelect Hyb 1  
SureSelect Hyb 2  
SureSelect Hyb 4  
SureSelect Binding Buffer  
SureSelect Wash Buffer 1  
SureSelect Wash Buffer  
SureSelect Elution Buffer  
SureSelect Neutralization

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.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

## Section 11. Toxicological information

Buffer

### 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 Hyb 1</b> SureSelect Hyb 1 Sodium dihydrogenorthophosphate	17142.9 8290	N/A N/A	N/A N/A	N/A N/A	N/A N/A
<b>SureSelect Hyb 4</b> SureSelect Hyb 4 Sulfuric acid monododecyl ester sodium salt (1:1)	128800.0 1288	N/A N/A	N/A N/A	N/A N/A	N/A N/A
<b>SureSelect Binding Buffer</b> SureSelect Binding Buffer	51770.7	N/A	N/A	N/A	N/A

#### Other information

: SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer	Not available.
SureSelect Elution Buffer	Not available.
SureSelect Neutralization Buffer	Not available.

## Section 12. Ecological information

### Toxicity


Product/ingredient name	Result	Species	Exposure
<b>SureSelect Hyb 1</b> Sodium dihydrogenorthophosphate	Acute LC50 720 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
<b>SureSelect Hyb 2</b> Edetic acid	Acute EC50 113000 µg/l Fresh water Acute LC50 41000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate Fish - Lepomis macrochirus	48 hours 96 hours
<b>SureSelect 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 Hyb 2</b> Edetic acid	-	-	Not readily
<b>SureSelect Elution Buffer</b> Sodium hydroxide	-	-	Readily

## Section 12. Ecological information

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
 SureSelect Hyb 2 Edetic acid	-3.86	1.8	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. 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 14. Transport information

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

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

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

## Section 15. Regulatory information

### Canadian lists

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

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

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

## Section 15. Regulatory information

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

## Section 16. Other information

### History

<b>Date of issue/Date of revision</b>	: 03/15/2023
<b>Date of previous issue</b>	: 11/28/2019
<b>Version</b>	: 6
<b>Key to abbreviations</b>	: 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
<b>SureSelect Hyb 2</b> EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method Calculation method
<b>SureSelect Elution Buffer</b> CORROSIVE TO METALS - Category 1 EYE IRRITATION - Category 2B	Expert judgment Expert judgment

 Indicates information that has changed from previously issued version.

### Notice to reader

## Section 16. Other information

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