

# SAFETY DATA SHEET



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

## Section 1. Identification

<b>Product identifier</b>	: SureSelect Target Enrichment-Box 1 - 480 Reactions, Part Number 5190-4395	
<b>Part No. (Chemical Kit)</b>	: 5190-4395	
<b>Part No.</b>	SureSelect Hyb 1	5190-4412
	SureSelect Hyb 2	5190-4413
	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

Analytical reagent.

SureSelect Hyb 1	12 ml
SureSelect Hyb 2	0.48 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 Australia Pty Ltd  
679 Springvale Road  
Mulgrave  
Victoria 3170, Australia  
1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture




<b>SureSelect Hyb 1</b> H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
<b>SureSelect Hyb 2</b> H319 H373	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (respiratory tract) - Category 2
<b>SureSelect Hyb 4</b> H402	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3
<b>SureSelect Neutralization Buffer</b> H315 H319	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

## Section 2. Hazard(s) identification

<p><input checked="" type="checkbox"/> SureSelect Hyb 1</p> <p>SureSelect Hyb 2</p> <p>SureSelect Hyb 4</p> <p>SureSelect Binding Buffer</p> <p>SureSelect Neutralization Buffer</p>	<p>Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10 - 30%</p> <p><input checked="" type="checkbox"/> SureSelect Neutralization Buffer</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 15.8%</p>
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### GHS label elements

#### Hazard pictograms

<p><input checked="" type="checkbox"/> SureSelect Hyb 1</p> <p>SureSelect Hyb 2</p> <p>SureSelect Neutralization Buffer</p>	<p></p> <p></p> <p></p>
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#### Signal word

<p><input checked="" type="checkbox"/> SureSelect Hyb 1</p> <p>SureSelect Hyb 2</p> <p>SureSelect Hyb 4</p> <p>SureSelect Binding Buffer</p> <p>SureSelect Wash Buffer 1</p> <p>SureSelect Wash Buffer</p> <p>SureSelect Elution Buffer</p> <p>SureSelect Neutralization Buffer</p>	<p>WARNING</p> <p>WARNING</p> <p>No signal word.</p> <p>No signal word.</p> <p>No signal word.</p> <p>No signal word.</p> <p>No signal word.</p> <p>No signal word.</p> <p>WARNING</p>
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#### Hazard statements

<p><input checked="" type="checkbox"/> SureSelect Hyb 1</p> <p>SureSelect Hyb 2</p> <p>SureSelect Hyb 4</p> <p>SureSelect Binding Buffer</p> <p>SureSelect Wash Buffer 1</p> <p>SureSelect Wash Buffer</p> <p>SureSelect Elution Buffer</p> <p>SureSelect Neutralization Buffer</p>	<p>H319 - Causes serious eye irritation.</p> <p>H319 - Causes serious eye irritation.</p> <p>H373 - May cause damage to organs through prolonged or repeated exposure. (respiratory tract)</p> <p>H402 - Harmful to aquatic life.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>H319 - Causes serious eye irritation.</p> <p>H315 - Causes skin irritation.</p>
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#### Precautionary statements

## Section 2. Hazard(s) identification

<b>Prevention</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
	SureSelect Hyb 2	P280 - Wear eye or face protection. P260 - Do not breathe vapour. P264 - Wash hands thoroughly after handling.
	SureSelect Hyb 4	P273 - Avoid release to the environment.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer	Not applicable.
	SureSelect Elution Buffer SureSelect Neutralization Buffer	Not applicable. P280 - Wear protective gloves. Wear eye or face protection. P264 - Wash hands thoroughly after handling.
<b>Response</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	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 Hyb 2	P314 - Get medical 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 attention.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer	Not applicable.
	SureSelect Elution Buffer SureSelect Neutralization Buffer	Not applicable. P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing 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.
<b>Storage</b>	: <input checked="" type="checkbox"/> 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 SureSelect Neutralization Buffer	Not applicable. Not applicable.
<b>Disposal</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SureSelect Hyb 4	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer	Not applicable.
	SureSelect Elution Buffer SureSelect Neutralization Buffer	Not applicable. Not applicable.

## Section 2. Hazard(s) identification

### Supplemental label elements

<b>Additional warning phrases</b>	: <input checked="" type="checkbox"/> 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.

<b>Other hazards which do not result in classification</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	None known.
	SureSelect Hyb 2	None known.
	SureSelect Hyb 4	None known.
	SureSelect Binding Buffer	None known.
	SureSelect Wash Buffer 1	None known.
	SureSelect Wash Buffer	None known.
	SureSelect Elution Buffer	None known.
	SureSelect Neutralization Buffer	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: SureSelect Hyb 1	Mixture
	SureSelect Hyb 2	Mixture
	SureSelect Hyb 4	Mixture
	SureSelect Binding Buffer	Mixture
	SureSelect Wash Buffer 1	Mixture
	SureSelect Wash Buffer	Mixture
	SureSelect Elution Buffer	Mixture
	SureSelect Neutralization Buffer	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<input checked="" type="checkbox"/> <b>SureSelect Hyb 1</b> Sodium chloride	≥10 - ≤30	7647-14-5
<b>SureSelect Hyb 2</b> Disodium dihydrogen ethylenediaminetetraacetate	≥10 - <30	139-33-3
<b>SureSelect Hyb 4</b> Sulfuric acid monododecyl ester sodium salt (1:1)	<2.5	8012-56-4
<b>SureSelect Neutralization Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - <20	1185-53-1

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

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. Continue to rinse for at least 10 minutes. Get medical attention.
	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. Continue to rinse for at least 10 minutes. 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. Get medical attention if irritation occurs.
	SureSelect Neutralization Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Inhalation</b>	: SureSelect Hyb 1	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 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. If not breathing, if breathing is irregular or if respiratory arrest occurs,

## Section 4. First aid measures

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 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. Get medical attention if symptoms occur.

SureSelect 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 Hyb 1

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 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 medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SureSelect Binding Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureSelect Wash Buffer 1

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureSelect Wash Buffer

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.

SureSelect 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.

## Section 4. First aid measures

### Ingestion

: SureSelect Hyb 1

Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

SureSelect Hyb 2

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

SureSelect 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 Wash Buffer 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

## Section 4. First aid measures

SureSelect Wash Buffer

attention if symptoms occur.

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 Elution 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 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.

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

#### Potential acute health effects

##### Eye contact

- : SureSelect Hyb 1 Causes serious eye irritation.
- 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 No known significant effects or critical hazards.
- SureSelect Neutralization Buffer Causes serious eye irritation.

##### 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.

##### Skin contact

- : 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 Causes skin irritation.



## Section 4. First aid measures

**Ingestion** : 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.

### Over-exposure signs/symptoms

**Eye contact** : SureSelect Hyb 1 Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness  
 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 No specific data.  
 SureSelect Neutralization Buffer Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness

**Inhalation** : 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.

**Skin contact** : 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 Adverse symptoms may include the following:  
 irritation  
 redness

**Ingestion** : 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

## Section 4. First aid measures

<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 ingested or inhaled.
		SureSelect Wash Buffer	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>	:	<input checked="" type="checkbox"/> SureSelect Hyb 1	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 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		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.
		SureSelect 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. Firefighting 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.
	SureSelect Neutralization Buffer	Use an extinguishing agent suitable for the surrounding fire.

<b>Unsuitable extinguishing media</b>	: SureSelect Hyb 1	None known.
	SureSelect Hyb 2	None known.
	SureSelect Hyb 4	None known.
	SureSelect Binding Buffer	None known.
	SureSelect Wash Buffer 1	None known.
	SureSelect Wash Buffer	None known.
	SureSelect Elution Buffer	None known.
	SureSelect Neutralization Buffer	None known.

### Specific hazards arising from the chemical

: SureSelect Hyb 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Hyb 2	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Hyb 4	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
SureSelect Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Wash Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Elution Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Neutralization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.

### Hazardous thermal decomposition products

: SureSelect Hyb 1	Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides
SureSelect Hyb 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
SureSelect Hyb 4	Decomposition products may include the following materials: carbon dioxide carbon monoxide

## Section 5. Firefighting measures

	SureSelect Binding Buffer	sulfur oxides metal oxide/oxides Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer	No specific data.
	SureSelect Elution Buffer	No specific data.
	SureSelect Neutralization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
<b>Special protective actions for fire-fighters</b>	: SureSelect 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

## Section 5. Firefighting measures

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

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilt material. Avoid breathing vapour 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilt 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 spilt 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 spilt material. Put on appropriate personal

## Section 6. Accidental release measures

	SureSelect Elution Buffer	protective equipment. 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 spilt material. 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	SureSelect Hyb 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Hyb 2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Hyb 4	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Binding Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Wash Buffer 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Wash Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Elution Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Neutralization Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>Environmental precautions</b>	SureSelect Hyb 1	Avoid dispersal of spilt 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 Hyb 2	Avoid dispersal of spilt 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 Hyb 4	Avoid dispersal of spilt 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). Water polluting material. May be harmful

## Section 6. Accidental release measures

SureSelect Binding Buffer	to the environment if released in large quantities. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer	Avoid dispersal of spilt 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 spilt 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 spilt 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 material 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.

## Section 6. Accidental release measures

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

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

SureSelect Hyb 1	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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.
SureSelect Hyb 2	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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 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). Keep away from acids.
SureSelect Neutralization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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.



## Section 7. Handling and storage

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

## Section 7. Handling and storage

**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 unlabelled 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 unlabelled 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 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 unlabelled 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 unlabelled 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 unlabelled 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 unlabelled

## Section 7. Handling and storage

SureSelect Elution Buffer

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

SureSelect Neutralization Buffer

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

None.

#### **Appropriate engineering controls**

: If user operations generate dust, fumes, gas, vapour 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.

## Section 8. Exposure controls and personal protection

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

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution Buffer SureSelect Neutralization Buffer	Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid.
<b>Colour</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 available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Odour</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 available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Odour threshold</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 available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>pH</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	7.4 8 5.2 to 6.2 7.1 to 8.1 6.5 to 7.5 6.8 to 7.8 12.2 to 13.4 7.5

## Section 9. Physical and chemical properties

<b>Melting point</b>	: 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.
<b>Boiling point</b>	: 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.
<b>Flash point</b>	: 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>Evaporation rate</b>	: 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>Flammability (solid, gas)</b>	: 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.
<b>Lower and upper explosive (flammable) limits</b>	: 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>Vapour pressure</b>	: 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

	Buffer	
<b>Vapour density</b>	: 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>Relative density</b>	: 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>Solubility</b>	: SureSelect Hyb 1	Easily soluble in the following materials: cold water and hot water.
	SureSelect Hyb 2	Easily soluble in the following materials: cold water and hot water.
	SureSelect Hyb 4	Easily soluble in the following materials: cold water and hot water.
	SureSelect Binding Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.
	SureSelect Wash Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect Elution Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect Neutralization Buffer	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: 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>Auto-ignition temperature</b>	: 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>Decomposition temperature</b>	: 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

<b>Viscosity</b>	: 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 10. Stability and reactivity

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

<b>Chemical stability</b>	: SureSelect Hyb 1	The product is stable.
	SureSelect Hyb 2	The product is stable.
	SureSelect Hyb 4	The product is stable.
	SureSelect Binding Buffer	The product is stable.
	SureSelect Wash Buffer 1	The product is stable.
	SureSelect Wash Buffer	The product is stable.
	SureSelect Elution Buffer	The product is stable.
	SureSelect Neutralization Buffer	The product is stable.

<b>Possibility of hazardous reactions</b>	: SureSelect Hyb 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Hyb 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Hyb 4	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Wash Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Elution Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Neutralization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

<b>Conditions to avoid</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 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>	: 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 oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. Reactive or incompatible with the following materials: acids May react or be incompatible with oxidising materials.
<b>Hazardous 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	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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 chloride	LD50 Oral	Rat	3000 mg/kg	-
SureSelect Hyb 2 Disodium dihydrogen ethylenediaminetetraacetate	LD50 Oral	Rat	2 g/kg	-
SureSelect Hyb 4 Sulfuric acid monododecyl ester sodium salt (1:1)	LD50 Oral	Rat	1288 mg/kg	-



## Section 11. Toxicological information

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Hyb 1 Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### Sensitisation

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
SureSelect Hyb 4 Sulfuric acid monododecyl ester sodium salt (1:1)	Category 3	Not applicable.	Respiratory tract irritation
SureSelect Neutralization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
SureSelect Hyb 2 Disodium dihydrogen ethylenediaminetetraacetate	Category 2	Inhalation	respiratory tract

### Aspiration hazard

Not available.

### Information on likely routes of exposure

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

Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Not available.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

## Section 11. Toxicological information

<b>Eye contact</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	Causes serious eye irritation. 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. No known significant effects or critical hazards. Causes serious eye irritation.
<b>Inhalation</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. 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.
<b>Skin contact</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 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. Causes skin irritation.
<b>Ingestion</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 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.

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

<b>Eye contact</b>	: <input checked="" type="checkbox"/> SureSelect Hyb 1	Adverse symptoms may include the following: pain or irritation watering redness
	SureSelect Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness
	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. Adverse symptoms may include the following:  pain or irritation watering redness

## Section 11. Toxicological information

<b>Inhalation</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 specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</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. Adverse symptoms may include the following:  irritation redness
<b>Ingestion</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.

### Delayed and immediate effects as well as 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

Not available.

<b>General</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 known significant effects or critical hazards. 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. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer SureSelect Elution 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.

## Section 11. Toxicological information

	SureSelect Neutralization Buffer	No known significant effects or critical hazards.
<b>Mutagenicity</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. 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.
<b>Teratogenicity</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. 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.
<b>Developmental effects</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. 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.
<b>Fertility effects</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. 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.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
<b>SureSelect Hyb 2</b> Oral Inhalation (dusts and mists)	13698.6 mg/kg 10.27 mg/l
<b>SureSelect Hyb 4</b> Oral Inhalation (dusts and mists)	128800 mg/kg 150 mg/l

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect Hyb 1 Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
SureSelect Hyb 2 Disodium dihydrogen ethylenediaminetetraacetate	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
	Acute LC50 320 mg/l Fresh water	Fish	96 hours

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
SureSelect Hyb 2 Disodium dihydrogen ethylenediaminetetraacetate	-4.3	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 minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

**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 Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

5

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

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

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

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

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 25/10/2017  
**Date of previous issue** : 05/02/2016.  
**Version** : 4

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 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)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
<b>SureSelect Hyb 1</b> Eye Irrit. 2A, H319	Calculation method
<b>SureSelect Hyb 2</b> Eye Irrit. 2A, H319 STOT RE 2, H373 (respiratory tract)	Calculation method Calculation method
<b>SureSelect Hyb 4</b> Aquatic Acute 3, H402	Calculation method
<b>SureSelect Neutralization Buffer</b> Skin Irrit. 2, H315 Eye Irrit. 2A, H319	Calculation method Calculation method

**References** : Not available.

▣ Indicates information that has changed from previously issued version.

### Notice to reader

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