# SAFETY DATA SHEET





Early Access OneSeq Phased Exome Target Enrichment Box 1

# **Section 1. Identification**

Part no. (chemical kit) : 5190-9543

Part no. : SureSelect Hyb 1 5190-4396

 SureSelect Hyb 2
 5190-4397

 SureSelect Hyb 4
 5190-4406

 SureSelect Binding Buffer
 5190-4399

 SureSelect Wash Buffer 1
 5190-4400

 SureSelect Wash Buffer 2
 5190-4401

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

Identified uses : Analytical reagent.

SureSelect Hyb 10.4 mlSureSelect Hyb 21.25 mlSureSelect Hyb 41.25 mlSureSelect Binding Buffer13.2 mlSureSelect Wash Buffer 18 mlSureSelect Wash Buffer 224 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

**GHS label elements** 

Hazard pictograms : SureSelect Hyb 2





Signal word : SureSelect Hyb 1 No signal word.

SureSelect Hyb 2 Warning

SureSelect Hyb 4 No signal word.
SureSelect Binding Buffer No signal word.
SureSelect Wash Buffer 1 No signal word.
SureSelect Wash Buffer 2 No signal word.

# Section 2. Hazard identification

**Hazard statements** : SureSelect Hyb 1 No known significant effects or critical hazards.

> SureSelect Hyb 2 H319 - Causes serious eye irritation.

> > H373 - May cause damage to organs through prolonged or repeated exposure. (respiratory tract) No known significant effects or critical hazards.

SureSelect Hyb 4

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

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

**Precautionary statements** 

Response

**Storage** 

result in classification

**Prevention** SureSelect Hyb 1 Not applicable.

> P280 - Wear eye or face protection. SureSelect Hyb 2

P260 - Do not breathe vapor.

SureSelect Hyb 4 Not applicable. SureSelect Binding Buffer Not applicable. Not applicable. SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 Not applicable. : SureSelect Hyb 1 Not applicable.

SureSelect Hyb 2 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.

SureSelect Hyb 4 Not applicable. Not applicable. SureSelect Binding Buffer SureSelect Wash Buffer 1 Not applicable. SureSelect Wash Buffer 2 Not applicable. Not applicable. : SureSelect Hyb 1 Not applicable. SureSelect Hyb 2

SureSelect Hyb 4 Not applicable. SureSelect Binding Buffer Not applicable. SureSelect Wash Buffer 1 Not applicable. Not applicable. SureSelect Wash Buffer 2 : SureSelect Hyb 1 Not applicable.

**Disposal** SureSelect Hyb 2 P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Not applicable. SureSelect Hyb 4 SureSelect Binding Buffer Not applicable. SureSelect Wash Buffer 1 Not applicable. Not applicable. SureSelect Wash Buffer 2

: SureSelect Hyb 1 None known. Supplemental label SureSelect Hyb 2 None known. elements SureSelect Hyb 4 None known. SureSelect Binding Buffer None known. SureSelect Wash Buffer 1 None known.

SureSelect Wash Buffer 2 None known. Other hazards which do not : 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 2 None known.

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# Section 3. Composition/information on ingredients

Substance/mixture : SureSelect Hyb 1 Mixture
SureSelect Hyb 2 Mixture
SureSelect Hyb 4 Mixture
SureSelect Binding Buffer Mixture
SureSelect Wash Buffer 1 Mixture
SureSelect Wash Buffer 2 Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
SureSelect Hyb 1			
Sodium dihydrogenorthophosphate	Sodium phosphate, monobasic	≥1 - ≤5	7558-80-7
SureSelect Hyb 2			
EDTA	EDTA	≥10 - ≤30	60-00-4
SureSelect Hyb 4			
Sodium dodecyl sulphate	Sodium dodecyl sulphate	≥0.1 - ≤1	151-21-3
SureSelect Wash Buffer 1			
Sodium dodecyl sulphate	Sodium dodecyl sulphate	≥0.1 - ≤1	151-21-3
SureSelect Wash Buffer 2			
Sodium dodecyl sulphate	Sodium dodecyl sulphate	≥0.1 - ≤1	151-21-3

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

<u>Description of necessary first aid measures</u>						
Eye contact	: 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.				

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	SureSelect Wash Buffer 2	Check for and remove any contact lenses. Get medical attention if irritation occurs. 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.
Inhalation	: <b>≶</b> ureSelect Hyb 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	SureSelect Hyb 2	attention if symptoms occur. 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 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: <b>S</b> ureSelect 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 medical attention if symptoms occur.
	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.

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SureSelect Wash Buffer 2

Remove contaminated clothing and shoes. Get

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

medical attention if symptoms occur.

Ingestion

: SureSelect Hyb 1

SureSelect Hyb 2

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

SureSelect Binding Buffer

SureSelect Wash Buffer 1

SureSelect Wash Buffer 2

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

personnel. Get medical attention if symptoms occur. 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. Wash out mouth with water. If material has been

vomiting unless directed to do so by medical

small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

swallowed and the exposed person is conscious, give

# 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 2

Inhalation : SureSelect Hyb 1 SureSelect Hyb 2

SureSelect Hyb 4
SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2

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.

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.

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**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

SureSelect Wash Buffer 2

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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 SureSelect Wash Buffer 1 No known significant effects or critical hazards. No known significant effects or critical hazards.

SureSelect Wash Buffer 2 No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation

Ingestion

Eye contact : SureSelect Hyb 1 No specific data.

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 2
SureSelect Hyb 1

No specific data.
No specific data.
No specific data.
No specific data.

SureSelect Hyb 2
SureSelect Hyb 4
SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2
SureSelect Hyb 1
No specific data.
No specific data.
No specific data.
No specific data.

Skin contact : SureSelect Hyb 1 No specific data.
SureSelect Hyb 2 No specific data.
SureSelect Hyb 4 No specific data.

SureSelect Hyb 4

SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2

SureSelect Hyb 1
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 2 No specific data.

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

Notes to physician : 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.

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SureSelect Wash Buffer 2 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments : SureSelect Hyb 1 No specific treatment.

SureSelect Hyb 2
SureSelect Hyb 4
SureSelect Binding Buffer
SureSelect Wash Buffer 1
No specific treatment.
No specific treatment.
No specific treatment.
No specific treatment.

SureSelect Wash Buffer 1 No specific treatment. SureSelect Wash Buffer 2 No specific treatment.

Protection of first-aiders : 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 2 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**

**Suitable extinguishing**: 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.

surrounding fire.

SureSelect Wash Buffer 1 Use an extinguishing agent suitable for the

surrounding fire.

SureSelect Wash Buffer 2 Use an extinguishing agent suitable for the

None known.

surrounding fire.

Unsuitable extinguishing media

: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer

SureSelect Wash Buffer 1

SureSelect Wash Buffer 2

None known. None known. None known. None known. 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.

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.

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# Section 5. Fire-fighting measures

SureSelect Wash Buffer 2 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

Decomposition products may include the following SureSelect Hyb 2

> materials: carbon dioxide carbon monoxide nitrogen oxides

SureSelect Hyb 4 No specific data.

SureSelect Binding Buffer Decomposition products may include the following

> materials: halogenated compounds

metal oxide/oxides SureSelect Wash Buffer 1 No specific data. No specific data.

SureSelect Wash Buffer 2

**Special protective actions** for fire-fighters

: 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.

Promptly isolate the scene by removing all persons SureSelect Hyb 4

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Promptly isolate the scene by removing all persons SureSelect Binding Buffer

> 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 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.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective : SureSelect Hyb 1

> 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.

Fire-fighters should wear appropriate protective SureSelect Hyb 4

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Fire-fighters should wear appropriate protective SureSelect Binding Buffer

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

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# **Section 5. Fire-fighting measures**

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 2 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

SureSelect Hyb 4

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.
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 2 No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

For emergency responders: SureSelect Hyb 1 If specialized clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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

SureSelect Hyb 4

SureSelect Hyb 2

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# Section 6. Accidental release measures

SureSelect Binding Buffer

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".

spillage, take note of any information in Section 8 on

SureSelect Wash Buffer 1

SureSelect Wash Buffer 2

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

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 Hyb 2

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

SureSelect Hyb 4

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 Binding Buffer

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

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SureSelect Wash Buffer 1

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

SureSelect Wash Buffer 2

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

Methods and materials for containment and cleaning up

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

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# Section 6. Accidental release measures

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 2 Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

# Section 7. Handling and storage

Precautions for safe handling

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 2 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

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# Section 7. Handling and storage

SureSelect Hyb 4

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 Binding Buffer

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

SureSelect Wash Buffer 1

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

SureSelect Wash Buffer 2

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

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

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. 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. 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

SureSelect Hyb 4

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# Section 7. Handling and storage

SureSelect Binding 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. 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. 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

SureSelect Wash Buffer 1

SureSelect Wash Buffer 2

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

# Section 8. Exposure controls/personal protection

**Control parameters** 

Occupational exposure limits

None.

Biological exposure indices

No exposure indices 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** 

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# Section 8. Exposure controls/personal protection

#### **Hygiene measures**

# : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin protection**

**Hand protection** 

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

Not available.

Not available.

Not available.

# Section 9. Physical and chemical properties and safety characteristics

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

#### **Appearance**

Physical state	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffe SureSelect Wash Buffer SureSelect Wash Buffer 2	1 Liquid.
Color	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffe SureSelect Wash Buffer SureSelect Wash SureSelect	<ol> <li>Not available.</li> </ol>
Odor	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4	Not available. Not available. Not available.

SureSelect Binding Buffer

SureSelect Wash Buffer 1

SureSelect Wash Buffer 2

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# Section 9. Physical and chemical properties and safety characteristics

Odor threshold	:	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not available.
pH	:	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	7.4 8 Not available. 7.5 7.5
Melting point/freezing point	:	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not available. Not available. 0°C (32°F) Not available. 0°C (32°F) 0°C (32°F)
Boiling point, initial boiling point, and boiling range	:	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not available. Not available. 100°C (212°F) Not available. 100°C (212°F) 100°C (212°F)
Flash point	:	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not available. Not available. Not available. Not available. Not available. Not available.
Evaporation rate	:	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not available. Not available. Not available. Not available. Not available. Not available.
Flammability	:	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Lower and upper explosion limit/flammability limit	:	SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	Not available. Not available. Not available. Not available. Not available. Not available.
Vapor pressure	:		

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# Section 9. Physical and chemical properties and safety characteristics

	Vapo	Vapor Pressure at 20°C			r pressu	re at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
SureSelect Hyb 1								
water	17.5	2.3	-	92.258	12.3	-		
SureSelect Hyb 2								
water	17.5	2.3	-	92.258	12.3	-		
EDTA	0	0	-	-	-	-		
SureSelect Hyb 4								
water	17.5	2.3	-	92.258	12.3	-		
SureSelect Binding Buffer								
water	17.5	2.3	-	92.258	12.3	-		
SureSelect Wash Buffer 1								
water	17.5	2.3	-	92.258	12.3	-		
SureSelect Wash Buffer 2								
water	17.5	2.3	-	92.258	12.3	-		
SureSelect Hyb 1	SureSelect Hyb 1 Not available.							

#### **Relative vapor density**

SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 Not available. Not available. Not available. Not available. Not available.

Not available.

#### **Relative density**

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

Not available.

#### Solubility(ies)

Media	Result
SureSelect Hyb 1	
water	Soluble
SureSelect Hyb 2	
water	Soluble
SureSelect Hyb 4	
water	Soluble
SureSelect Binding Buffer	
water	Soluble

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# Section 9. Physical and chemical properties and safety characteristics

SureSelect Wash Buffer 1	
water	Soluble
SureSelect Wash Buffer 2	
water	Soluble

Partition coefficient: noctanol/water : SureSelect Hyb 1 Not applicable.
SureSelect Hyb 2 Not applicable.
SureSelect Hyb 4 Not applicable.
SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2 Not applicable.

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
SureSelect Hyb 2			
EDTA	>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 2 Not available. : 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.

Particle characteristics

Median particle size

**Viscosity** 

: SureSelect Hyb 1 Not applicable.
SureSelect Hyb 2 Not applicable.
SureSelect Hyb 4 Not applicable.
SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2 Not applicable.

SureSelect Wash Buffer 2

# 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.

Not available.

SureSelect Binding Buffer No specific test data related to reactivity available for

this product or its ingredients.

SureSelect Wash Buffer 1

No specific test data related to reactivity available for this product or its ingredients.

SureSelect Wash Buffer 2 No specific test data related to reactivity available for

this product or its ingredients.

Chemical stability: SureSelect Hyb 1 The product is stable.

SureSelect Hyb 2 The product is stable.

SureSelect Hyb 4 The product is stable.

SureSelect Hyb 4
SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2
The product is stable.
The product is stable.
The product is stable.
The product is stable.

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# Section 10. Stability and reactivity

Possibility of hazardous reactions

: 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 2 Under normal conditions of storage and use,

hazardous reactions will not occur.

**Conditions to avoid** 

: SureSelect Hyb 1 No specific data. SureSelect Hyb 2 No specific data. SureSelect Hyb 4 No specific data.

SureSelect Hyb 4

SureSelect Binding Buffer
SureSelect Wash Buffer 1

SureSelect Wash Buffer 2

No specific data.

No specific data.

No specific data.

Incompatible materials

: SureSelect Hyb 1 May react or be incompatible with oxidizing materials. SureSelect Hyb 2 May react or be incompatible with oxidizing materials.

SureSelect Hyb 4
SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2

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.

Hazardous decomposition products

: 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.

hazardous decomposition products should not be

produced.

SureSelect Wash Buffer 1 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

SureSelect Wash Buffer 2 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

# **Section 11. Toxicological information**

Information on toxicological effects

Acute toxicity

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Product/ingredient name	Result	Species	Dose	Exposure
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	LD50 Dermal	Rabbit Rat	>7940 mg/kg 8290 mg/kg	-
SureSelect Hyb 2 EDTA	LD50 Oral	Rat	4500 mg/kg	-
SureSelect Hyb 4 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	Eyes - Mild irritant	Rabbit	-	150 mg	-
SureSelect Hyb 4					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	_	250 ug	_
,	Eyes - Moderate irritant	Rabbit	_	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Mild irritant	Guinea pig	-	336 hours	-
	Skin - Mild irritant	Human		25250 ppm 48 hours 5 %	
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
	Skiii - Willa IIIItalit	Nabbit	_	mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
	Skin - Moderate irritant	Rabbit	-	mg 24 hours 25	-
	Skin - Severe irritant	Guinea pig	-	mg 48 hours 25250 ppm	-
	Skin - Severe irritant	Guinea pig	-	72 hours 25250 ppm	-
	Skin - Severe irritant	Human	-	24 hours 10 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2.5 %	-
SureSelect Wash Buffer 1					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	_	250 ug	_
Codiain dodooyi odipilate	Eyes - Moderate irritant	Rabbit	_	10 mg	_
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Skin - Mild irritant	Guinea pig	-	mg 24 hours 25	-
	Skin - Mild irritant	Guinea pig	-	mg 336 hours 25250 ppm	-
	Skin - Mild irritant	Human	-	48 hours 5 %	-

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		-			
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
	Skin - Moderate irritant	Rabbit	_	mg 24 hours 25	_
				mg	
	Skin - Severe irritant	Guinea pig	-	48 hours 25250 ppm	-
	Skin - Severe irritant	Guinea pig	-	72 hours 25250 ppm	-
	Skin - Severe irritant	Human	-	24 hours 10	-
	Skin - Severe irritant	Rabbit	-	% 24 hours 2.5 %	-
SureSelect Wash Buffer 2					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
, ,	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
				mg	
	Skin - Mild irritant	Guinea pig	-	336 hours 25250 ppm	-
	Skin - Mild irritant	Human	-	48 hours 5 %	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
	Skin - Moderate irritant	Rabbit	-	mg 24 hours 25	-
	Skin - Severe irritant	Guinea pig	-	mg 48 hours 25250 ppm	-
	Skin - Severe irritant	Guinea pig	-	72 hours	-
	Skin - Severe irritant	Human	-	25250 ppm 24 hours 10 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2.5 %	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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Name	Category	Route of exposure	Target organs
SureSelect Hyb 4 Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	, , ,	Route of exposure	Target organs
SureSelect Hyb 2 EDTA	Category 2	inhalation	respiratory tract

#### **Aspiration hazard**

Not available.

Information	on	the	like	ly
routes of av	no	suro		

: SureSelect Hyb 1 Not available.

SureSelect Hyb 2 Routes of entry anticipated: Oral, Dermal, Inhalation,

No known significant effects or critical hazards.

Eyes.

Not available. SureSelect Hyb 4 SureSelect Binding Buffer Not available. SureSelect Wash Buffer 1 Not available. SureSelect Wash Buffer 2 Not available

#### P

	SureSelect Wash Buffer 2	2 Not available.
Potential acute health effe	<u>cts</u>	
Eye contact	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 2 SureSelect Wash Buffer 2	No known significant effects or critical hazards.
Inhalation	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 2 SureSelect Wash Buffer 2	No known significant effects or critical hazards.
Skin contact	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 2 SureSelect Wash Buffer 2	No known significant effects or critical hazards.
Ingestion	: SureSelect Hyb 1 SureSelect Hyb 2	No known significant effects or critical hazards. No known significant effects or critical hazards.

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SureSelect Hyb 4

SureSelect Binding Buffer

SureSelect Wash Buffer 1

SureSelect Wash Buffer 2

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

Eye contact : SureSelect Hyb 1 No specific data.

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 2
SureSelect Hyb 1
SureSelect Hyb 2
No specific data.
No specific data.
No specific data.
No specific data.

SureSelect Hyb 2
SureSelect Hyb 4
SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2
SureSelect Hyb 1
No specific data.

Skin contact : SureSelect Hyb 1 No specific data.
SureSelect Hyb 2 No specific data.

SureSelect Hyb 4
SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2
No specific data.
No specific data.
No specific data.
No specific data.

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 1 No specific data. SureSelect Wash Buffer 2 No specific data.

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

**Short term exposure** 

Potential immediate : Not available.

effects

Inhalation

Potential delayed effects: Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : SureSelect Hyb 1 No known significant effects or critical hazards.

SureSelect Hyb 2 May cause damage to organs through prolonged or

repeated exposure.

SureSelect Hyb 4 No known significant effects or critical hazards.

SureSelect Binding Buffer
SureSelect Wash Buffer 1
SureSelect Wash Buffer 2
SureSelect Wash Buffer 2
SureSelect Hyb 1

No known significant effects or critical hazards.

**Carcinogenicity**: SureSelect Hyb 1 No known significant effects or critical hazards. SureSelect Hyb 2 No known significant effects or critical hazards.

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

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Mutagenicity	: 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 2	No known significant effects or critical hazards.
Reproductive toxicity	: 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 2	No known significant effects or critical hazards.
		•

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SureSelect Hyb 1					
SureSelect Hyb 1	17142.9	N/A	N/A	N/A	N/A
Sodium dihydrogenorthophosphate	8290	N/A	N/A	N/A	N/A
SureSelect Hyb 2					
SureSelect Hyb 2	30821.9	N/A	N/A	N/A	10.3
EDTA	4500	N/A	N/A	N/A	1.5
SureSelect Hyb 4					
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
SureSelect Binding Buffer					
SureSelect Binding Buffer	51369.9	N/A	N/A	N/A	N/A
SureSelect Wash Buffer 1					
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
SureSelect Wash Buffer 2					
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5

# **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	Acute LC50 720 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
SureSelect Hyb 2 EDTA	Acute EC50 >60 mg/l Fresh water Acute EC50 113000 μg/l Fresh water Acute LC50 129000 μg/l Fresh water	Algae - Raphidocelis subcapitata Daphnia - Daphnia magna - Neonate Fish - Ictalurus punctatus - Fingerling	72 hours 48 hours 96 hours

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F	Acute EC50 1200 μg/l Marine water Acute LC50 900 μg/l Marine water Acute LC50 1400 μg/l Fresh water	Algae - <i>Skeletonema costatum</i> Crustaceans - <i>Artemia salina</i> - Adult	96 hours 48 hours
F	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina -	
			48 hours
P	Acute LC50 1400 μg/l Fresh water	l Adult	
	Acute LC50 1400 µg/l Fresh water	D 1 1 D 1 1	40.1
		Daphnia - <i>Daphnia pulex</i> -	48 hours
	A custo I CEO EOO um/l Eroch victor	Neonate	06 hauma
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours 96 hours
	Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water	Algae - <i>Ulva fasciata</i> - Zoea Crustaceans - <i>Pseudosida</i>	21 days
	Chionic NOEC 1 mg/l Fresh water	ramosa - Neonate	Zīuays
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
		Neonate	
	Chronic NOEC 0.8 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i>	28 days
SureSelect Wash Buffer 1			
	Acute EC50 1200 μg/l Marine water	Algae - Skeletonema costatum	96 hours
F	Acute LC50 900 μg/l Marine water	Crustaceans - <i>Artemia salina</i> - Adult	48 hours
F	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 590 μg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - <i>Pseudosida</i> ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i>	28 days
SureSelect Wash Buffer 2			
	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 μg/l Marine water	Crustaceans - <i>Artemia salina</i> - Adult	48 hours
ļ.	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 590 μg/l Fresh water	Fish - <i>Cirrhinus mrigala</i> - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i>	28 days

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect Hyb 4				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-

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SureSelect Wash Buffer 2				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SureSelect Hyb 2 EDTA	-	-	Not readily
SureSelect Hyb 4 Sodium dodecyl sulphate	-	-	Readily
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	-	-	Readily
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
SureSelect Hyb 2 EDTA	-	1.8	Low
SureSelect Hyb 4 Sodium dodecyl sulphate	-2.03	-	Low
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	-2.03	-	Low
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	-2.03	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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.

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# 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: Not available.

to IMO instruments

# 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.

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

Not listed.

**Inventory list** 

Canada : MI components are listed or exempted. **United States** : All components are active or exempted.

# Section 16. Other information

#### **History**

Date of issue/Date of

: 10/18/2024

revision

**Date of previous issue** : 09/29/2021

**Version** : 4

Key to abbreviations : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

#### Procedure used to derive the classification

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Classification	Justification
SureSelect Hyb 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method Calculation method

<sup>▼</sup> Indicates information that has changed from previously issued version.

#### **Notice to reader**

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