

SAFETY DATA SHEET

Beta SureSelect Max Target Enrichment Kit Fast Hyb Module, Box 2, 16 Hybs, Part Number 5280-0062

Section 1. Identification

Product identifier	: Beta SureSelect Max Target Enrichment Kit Fast Hyb Module, Box 2, 16 Hybs, Part Number 5280-0062
Part no. (chemical kit)	: 5280-0062
Part no.	: SureSelect Max Fast Hyb Buffer, 16 Hybs 52RD-0063 SureSelect RNase Block 5190-4383 Blocker Mix, ILM 52RD-0066 SureSelect Post- Capture Primer Mix 5190-9730 Amplification Master Mix 7K0014-384

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

Identified uses	: Analytical reagent. For research use only. SureSelect Max Fast Hyb Buffer, 16 Hybs 0.108 ml SureSelect RNase Block 0.016 ml Blocker Mix, ILM 0.08 ml (16 reactions) SureSelect Post- Capture Primer Mix 0.016 ml (16 reactions) Amplification Master Mix 0.45 ml (16 reactions)
Uses advised against	: Not for use in diagnostic procedures.
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 Max Fast Hyb Buffer, 16 Hybs

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

SureSelect RNase Block

H320 EYE IRRITATION - Category 2B

Amplification Master Mix

H302 ACUTE TOXICITY (oral) - Category 4
H315 SKIN IRRITATION - Category 2
H319 EYE IRRITATION - Category 2A
H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
H412 AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements

Section 2. Hazard identification

Hazard pictograms

: SureSelect Max Fast Hyb Buffer, 16 Hybs



Amplification Master Mix



Signal word

: SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block Blocker Mix, ILM
SureSelect Post- Capture Primer Mix
Amplification Master Mix

Warning

Warning
No signal word.
No signal word.

Hazard statements

: SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block Blocker Mix, ILM
SureSelect Post- Capture Primer Mix
Amplification Master Mix

H373 - May cause damage to organs through prolonged or repeated exposure.
H320 - Causes eye irritation.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H370 - Causes damage to organs.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

: SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block Blocker Mix, ILM
SureSelect Post- Capture Primer Mix
Amplification Master Mix

P260 - Do not breathe vapor.

Not applicable.
Not applicable.
Not applicable.

P280 - Wear protective gloves. Wear eye or face protection.
P273 - Avoid release to the environment.
P260 - Do not breathe vapor.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash thoroughly after handling.

Response

: SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block Blocker Mix, ILM
SureSelect Post- Capture Primer Mix
Amplification Master Mix

P314 - Get medical advice or attention if you feel unwell.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.
Not applicable.
Not applicable.
P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.

Section 2. Hazard identification

		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.
Storage	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix SureSelect Max Fast Hyb Buffer, 16 Hybs	None known. None known. None known. None known. Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 20.3%
Other hazards which do not result in classification	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	None known. None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	Mixture Mixture Mixture Mixture Mixture
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Ingredient name	Synonyms	% (w/w)	CAS number
SureSelect Max Fast Hyb Buffer, 16 Hybs			
Ammonium chloride	Ammoninium chloride	≥1 - ≤5	12125-02-9
SureSelect RNase Block			

Section 3. Composition/information on ingredients

Glycerol	Glycerol	≥30 - ≤60	56-81-5
Amplification Master Mix			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
Trometamol	Tris	≥5 - ≤10	77-86-1
tetramethylammonium chloride	tetramethylammonium chloride	≥5 - ≤10	75-57-0

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

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

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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 following exposure or if feeling unwell.
	SureSelect RNase Block	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Blocker Mix, ILM	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 Post- Capture Primer Mix	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.
	Amplification Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
Inhalation	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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 RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if

Section 4. First-aid measures

		<p>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.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>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 necessary, call a poison center or physician. 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.</p>
	Blocker Mix, ILM	
	SureSelect Post- Capture Primer Mix	
	Amplification Master Mix	
Skin contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	<p>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.</p>
	SureSelect RNase Block	<p>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.</p>
	Blocker Mix, ILM	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	SureSelect Post- Capture Primer Mix	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	Amplification Master Mix	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
Ingestion	: SureSelect Max Fast Hyb Buffer, 16 Hybs	<p>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</p>

Section 4. First-aid measures

	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 RNase Block	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 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.
Blocker Mix, ILM	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Post- Capture Primer Mix	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.
Amplification Master Mix	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. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye irritation.
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Section 4. First-aid measures

Inhalation	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	Causes damage to organs following a single exposure if inhaled.
Skin contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
Ingestion	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
<u>Over-exposure signs/symptoms</u>		
Eye contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	No specific data.
Skin contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	Adverse symptoms may include the following: irritation redness

Section 4. First-aid measures

Ingestion	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	No specific data.

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

Notes to physician	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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 RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Blocker Mix, ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Post- Capture Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Amplification Master Mix	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific treatment.
	SureSelect RNase Block	No specific treatment.
	Blocker Mix, ILM	No specific treatment.
	SureSelect Post- Capture Primer Mix	No specific treatment.
	Amplification Master Mix	No specific treatment.

Protection of first-aiders	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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 RNase Block	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.
	Blocker Mix, ILM	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Post- Capture Primer Mix	No action shall be taken involving any personal risk or without suitable training.
	Amplification Master Mix	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

- | | |
|---|---|
| : SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block | Use an extinguishing agent suitable for the surrounding fire. |
| Blocker Mix, ILM | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect Post- Capture Primer Mix | Use an extinguishing agent suitable for the surrounding fire. |
| Amplification Master Mix | Use an extinguishing agent suitable for the surrounding fire. |

Unsuitable extinguishing media

- | | |
|--|-------------|
| : SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block
Blocker Mix, ILM
SureSelect Post- Capture Primer Mix
Amplification Master Mix | None known. |
| | None known. |
| | None known. |
| | None known. |

Specific hazards arising from the chemical

- | | |
|---|---|
| : SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Blocker Mix, ILM | In a fire or if heated, a pressure increase will occur and the container may burst. |
| SureSelect Post- Capture Primer Mix | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Amplification Master Mix | In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |

Hazardous thermal decomposition products

- | | |
|---|--|
| : SureSelect Max Fast Hyb Buffer, 16 Hybs | Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds
metal oxide/oxides |
| SureSelect RNase Block | Decomposition products may include the following materials:
carbon dioxide
carbon monoxide |
| Blocker Mix, ILM | No specific data. |
| SureSelect Post- Capture Primer Mix | No specific data. |
| Amplification Master Mix | Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds |

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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 RNase Block	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.
	Blocker Mix, ILM	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 Post- Capture Primer Mix	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.
	Amplification Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect RNase Block	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Blocker Mix, ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Post- Capture Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Amplification Master Mix	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 Max Fast Hyb Buffer, 16 Hybs	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	SureSelect RNase Block	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.

Section 6. Accidental release measures

	Blocker Mix, ILM	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 Post- Capture Primer Mix	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.
	Amplification Master Mix	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.
For emergency responders	SureSelect Max Fast Hyb Buffer, 16 Hybs	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect RNase Block	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".
	Blocker Mix, ILM	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	SureSelect Post- Capture Primer Mix	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".
	Amplification Master Mix	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 Max Fast Hyb Buffer, 16 Hybs	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 RNase Block	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).
	Blocker Mix, ILM	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 Post- Capture Primer Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

Section 6. Accidental release measures

Amplification Master Mix

caused environmental pollution (sewers, waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Methods for cleaning up : SureSelect Max Fast Hyb Buffer, 16 Hybs

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 RNase Block

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.

Blocker Mix, ILM

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 Post- Capture Primer Mix

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.

Amplification Master Mix

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 Max Fast Hyb Buffer, 16 Hybs

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 RNase Block

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

Section 7. Handling and storage

	Blocker Mix, ILM	reuse container. Put on appropriate personal protective equipment (see Section 8).
	SureSelect Post- Capture Primer Mix	Put on appropriate personal protective equipment (see Section 8).
	Amplification Master Mix	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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 RNase Block	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.
	Blocker Mix, ILM	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 Post- Capture Primer Mix	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.
	Amplification Master Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: SureSelect Max Fast Hyb Buffer, 16 Hybs	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

Section 7. Handling and storage

SureSelect RNase Block

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.

Blocker Mix, ILM

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

SureSelect Post- Capture
Primer Mix

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.

Amplification Master Mix

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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](#)

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	CA Alberta Provincial (Canada, 6/2018). OEL: 20 mg/m ³ 15 minutes. Form: Fume OEL: 10 mg/m ³ 8 hours. Form: Fume CA British Columbia Provincial (Canada, 6/2023). TWA: 10 mg/m ³ 8 hours. Form: Fume STEL: 20 mg/m ³ 15 minutes. Form: Fume CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m ³ 8 hours. Form: Fume STEL: 20 mg/m ³ 15 minutes. Form: Fume CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours. CA Quebec Provincial (Canada, 6/2022). TWA EV: 10 mg/m ³ 8 hours. Form: fume STEV: 20 mg/m ³ 15 minutes. Form: fume
SureSelect RNase Block Glycerol	CA Alberta Provincial (Canada, 6/2018). OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 6/2022). TWA EV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 6/2023). TWA: 3 mg/m ³ 8 hours. Form: respirable mist TWA: 10 mg/m ³ 8 hours. Form: total mist
Amplification Master Mix Glycerol	CA Alberta Provincial (Canada, 6/2018). OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 6/2022). TWA EV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 6/2023). TWA: 3 mg/m ³ 8 hours. Form: respirable mist TWA: 10 mg/m ³ 8 hours. Form: total mist

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.

Section 8. Exposure controls/personal protection

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.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	SureSelect Max Fast Hyb Buffer, 16 Hybs	Liquid.
	SureSelect RNase Block	Liquid.
	Blocker Mix, ILM	Liquid.
	SureSelect Post- Capture Primer Mix	Liquid.
	Amplification Master Mix	Liquid.
Color	SureSelect Max Fast Hyb Buffer, 16 Hybs	Not available.
	SureSelect RNase Block	Not available.
	Blocker Mix, ILM	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	Amplification Master Mix	Not available.

Section 9. Physical and chemical properties and safety characteristics

Odor : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.
 SureSelect RNase Block Not available.
 Blocker Mix, ILM Not available.
 SureSelect Post- Capture Primer Mix Not available.

Odor threshold : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.
 SureSelect RNase Block Not available.
 Blocker Mix, ILM Not available.
 SureSelect Post- Capture Primer Mix Not available.
 Amplification Master Mix Not available.

pH : SureSelect Max Fast Hyb Buffer, 16 Hybs 7.5
 SureSelect RNase Block 7.6
 Blocker Mix, ILM 7.5
 SureSelect Post- Capture Primer Mix 7.5
 Amplification Master Mix 8.5

Melting point/freezing point : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.
 SureSelect RNase Block Not available.
 Blocker Mix, ILM 0°C (32°F)
 SureSelect Post- Capture Primer Mix 0°C (32°F)
 Amplification Master Mix Not available.

Boiling point, initial boiling point, and boiling range : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.
 SureSelect RNase Block Not available.
 Blocker Mix, ILM 100°C (212°F)
 SureSelect Post- Capture Primer Mix 100°C (212°F)
 Amplification Master Mix Not available.

Flash point	:	Ingredient name	Closed cup			Open cup		
			°C	°F	Method	°C	°F	Method
		SureSelect RNase Block						
		Glycerol	-	-	-	177	350.6	-
		Amplification Master Mix						
		Glycerol	-	-	-	177	350.6	-

Evaporation rate : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.
 SureSelect RNase Block Not available.
 Blocker Mix, ILM Not available.
 SureSelect Post- Capture Primer Mix Not available.
 Amplification Master Mix Not available.

Section 9. Physical and chemical properties and safety characteristics

Flammability : SureSelect Max Fast Hyb Buffer, 16 Hybs Not applicable.

SureSelect RNase Block Not applicable.

Blocker Mix, ILM Not applicable.

SureSelect Post- Capture Primer Mix Not applicable.

Amplification Master Mix Not applicable.

Lower and upper explosion limit/flammability limit : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.

SureSelect RNase Block Not available.

Blocker Mix, ILM Not available.

SureSelect Post- Capture Primer Mix Not available.

Amplification Master Mix Not available.

Vapor pressure

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
SureSelect Max Fast Hyb Buffer, 16 Hybs						
water	17.5	2.3	-	92.258	12.3	-
SureSelect RNase Block						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Blocker Mix, ILM						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Post-Capture Primer Mix						
water	17.5	2.3	-	92.258	12.3	-
Amplification Master Mix						
water	17.5	2.3	-	92.258	12.3	-
Trometamol	<0.00075006	<0.0001	-	-	-	-

Relative vapor density : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.

SureSelect RNase Block Not available.

Blocker Mix, ILM Not available.

SureSelect Post- Capture Primer Mix Not available.

Amplification Master Mix Not available.

Section 9. Physical and chemical properties and safety characteristics

Relative density : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.
 SureSelect RNase Block Not available.
 Blocker Mix, ILM Not available.
 SureSelect Post- Capture Primer Mix Not available.
 Amplification Master Mix Not available.

Solubility(ies)	Media	Result
	SureSelect Max Fast Hyb Buffer, 16 Hybs	
	water	Soluble
	SureSelect RNase Block	
	water	Soluble
	Blocker Mix, ILM	
	water	Soluble
	SureSelect Post- Capture Primer Mix	
	water	Soluble
	Amplification Master Mix	
	water	Soluble

Partition coefficient: n-octanol/water : SureSelect Max Fast Hyb Buffer, 16 Hybs Not applicable.
 SureSelect RNase Block Not applicable.
 Blocker Mix, ILM Not applicable.
 SureSelect Post- Capture Primer Mix Not applicable.
 Amplification Master Mix Not applicable.

Auto-ignition temperature	Ingredient name	°C	°F	Method
	SureSelect Max Fast Hyb Buffer, 16 Hybs			
	Ammonium chloride	>400	>752	EU A.16
	SureSelect RNase Block			
	Glycerol	370	698	-
	Amplification Master Mix			
	Glycerol	370	698	-

Decomposition temperature : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.
 SureSelect RNase Block Not available.
 Blocker Mix, ILM Not available.
 SureSelect Post- Capture Primer Mix Not available.
 Amplification Master Mix Not available.

Viscosity : SureSelect Max Fast Hyb Buffer, 16 Hybs Not available.
 SureSelect RNase Block Not available.
 Blocker Mix, ILM Not available.
 SureSelect Post- Capture Primer Mix Not available.
 Amplification Master Mix Not available.

Section 9. Physical and chemical properties and safety characteristics

Particle characteristics

Median particle size	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Not applicable.
	SureSelect RNase Block	Not applicable.
	Blocker Mix, ILM	Not applicable.
	SureSelect Post- Capture Primer Mix	Not applicable.
	Amplification Master Mix	Not applicable.

Section 10. Stability and reactivity

Reactivity	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect RNase Block	No specific test data related to reactivity available for this product or its ingredients.
	Blocker Mix, ILM	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Post- Capture Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
	Amplification Master Mix	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: SureSelect Max Fast Hyb Buffer, 16 Hybs	The product is stable.
	SureSelect RNase Block	The product is stable.
	Blocker Mix, ILM	The product is stable.
	SureSelect Post- Capture Primer Mix	The product is stable.
	Amplification Master Mix	The product is stable.
Possibility of hazardous reactions	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	Blocker Mix, ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Post- Capture Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Amplification Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	No specific data.
Incompatible materials	: SureSelect Max Fast Hyb Buffer, 16 Hybs	May react or be incompatible with oxidizing materials.
	SureSelect RNase Block	May react or be incompatible with oxidizing materials.
	Blocker Mix, ILM	May react or be incompatible with oxidizing materials.
	SureSelect Post- Capture Primer Mix	May react or be incompatible with oxidizing materials.
	Amplification Master Mix	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

Hazardous decomposition products	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Blocker Mix, ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Post- Capture Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Amplification Master Mix	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 Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	1650 mg/kg	-
SureSelect RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Amplification Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	-
	LD50 Oral	Rat	50 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	Eyes - Severe irritant	Rabbit	-	100 mg	-
SureSelect RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Amplification Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-

Sensitization

Section 11. Toxicological information

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Amplification Master Mix Trometamol	Category 3	-	Respiratory tract irritation
tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	Category 2	-	central nervous system (CNS)

Aspiration hazard

Not available.

Information on the likely routes of exposure

: SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block
Blocker Mix, ILM
SureSelect Post- Capture Primer Mix
Amplification Master Mix

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

Potential acute health effects

Eye contact

: SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block
Blocker Mix, ILM
SureSelect Post- Capture Primer Mix
Amplification Master Mix

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

Inhalation

: SureSelect Max Fast Hyb Buffer, 16 Hybs
SureSelect RNase Block
Blocker Mix, ILM
SureSelect Post- Capture Primer Mix
Amplification Master Mix

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 damage to organs following a single exposure if inhaled.

Section 11. Toxicological information

Skin contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
Ingestion	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	Blocker Mix, ILM	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	Amplification Master Mix	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	No specific data.
Skin contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	Adverse symptoms may include the following: irritation redness
Ingestion	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	No specific data.
	Blocker Mix, ILM	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	Amplification Master Mix	No specific data.

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

Short term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	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.
Carcinogenicity	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	61807.6 1650	93647.9 2500	N/A N/A	N/A N/A	N/A N/A
SureSelect RNase Block Glycerol	12600	N/A	N/A	N/A	N/A
Amplification Master Mix Amplification Master Mix Glycerol tetramethylammonium chloride	1279.5 12600 50	7677.0 N/A 300	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

Section 11. Toxicological information

Other information

: SureSelect RNase Block

Adverse symptoms may include the following: May cause skin sensitization.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	Acute EC50 0.07 mg/l Marine water Acute LC50 20 µg/l Fresh water Acute LC50 390 µg/l Fresh water Acute LC50 80 µg/l Fresh water Chronic EC10 0.03 mg/l Fresh water Chronic NOEC 0.6 mg/l Marine water Chronic NOEC 330 µg/l Fresh water Chronic NOEC 0.006 mg/l Fresh water	Algae - <i>Hormosira banksii</i> - Gamete Crustaceans - <i>Macrobrachium rosenbergii</i> - Post-larvae Daphnia - <i>Daphnia magna</i> - Young Fish - <i>Oncorhynchus mykiss</i> Daphnia - <i>Daphnia obtusa</i> Algae - <i>Entomoneis punctulata</i> - Exponential growth phase Crustaceans - <i>Crangonyx sp.</i> - Juvenile (Fledgling, Hatchling, Weanling) Fish - <i>Ictalurus punctatus</i> - Fry	72 hours 48 hours 48 hours 96 hours 21 days 72 hours 21 days 30 days
SureSelect RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
Amplification Master Mix Glycerol Trometamol	Acute LC50 54000 mg/l Fresh water Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water Acute LC50 462 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i> Daphnia Daphnia Fish - <i>Pimephales promelas</i>	96 hours 48 hours 48 hours 96 hours
tetramethylammonium chloride			

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect RNase Block Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Amplification Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	-	-	Readily
Amplification Master Mix Trometamol	-	-	Readily
tetramethylammonium chloride	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	-3.2	-	Low
SureSelect RNase Block Glycerol	-1.76	-	Low
Amplification Master Mix Glycerol	-1.76	-	Low
Trometamol	-2.31	-	Low
tetramethylammonium chloride	<-1.6	-	Low

Mobility in soil

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

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

Section 13. Disposal considerations

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Canada : Not determined.

United States : Not determined.

Section 16. Other information

History

Date of issue/Date of revision : 01/12/2024

Date of previous issue : No previous validation

Version : 1

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

Section 16. Other information

Classification	Justification
SureSelect Max Fast Hyb Buffer, 16 Hybs SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
SureSelect RNase Block EYE IRRITATION - Category 2B	Calculation method
Amplification Master Mix ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

Indicates information that has changed from previously issued version.

[Notice to reader](#)

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