

SAFETY DATA SHEET

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

Section 1. Identification

1.1 Product identifier

Product name	: 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
Validation date	: 1/12/2024

1.2 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.

1.3 Details of the supplier of the safety data sheet

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

In case of emergency	: CHEMTREC®: 1-800-424-9300
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Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post- Capture Primer Mix Amplification Master Mix	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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Section 2. Hazards 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

SureSelect Max Fast Hyb Buffer, 16 Hybs Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 20.3%

2.2 GHS label elements

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.

Danger

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.

Section 2. Hazards identification

Response	: SureSelect Max Fast Hyb Buffer, 16 Hybs	P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
	SureSelect RNase Block	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.
	Blocker Mix, ILM	Not applicable.
	SureSelect Post- Capture Primer Mix	Not applicable.
	Amplification Master Mix	P308 + P311 - IF exposed: 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. 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	Not applicable.
	SureSelect RNase Block	Not applicable.
	Blocker Mix, ILM	Not applicable.
	SureSelect Post- Capture Primer Mix	Not applicable.
	Amplification Master Mix	Not applicable.
Disposal	: SureSelect Max Fast Hyb Buffer, 16 Hybs	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SureSelect RNase Block	Not applicable.
	Blocker Mix, ILM	Not applicable.
	SureSelect Post- Capture Primer Mix	Not applicable.
	Amplification Master Mix	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	None known.
	SureSelect RNase Block	None known.
	Blocker Mix, ILM	None known.
	SureSelect Post- Capture Primer Mix	None known.
	Amplification Master Mix	None known.

2.3 Other hazards

Section 2. Hazards identification

Hazards not otherwise classified	SureSelect Max Fast Hyb Buffer, 16 Hybs	None known.
	SureSelect RNase Block	None known.
	Blocker Mix, ILM	None known.
	SureSelect Post- Capture Primer Mix	None known.
	Amplification Master Mix	None known.

Section 3. Composition/information on ingredients

Substance/mixture	SureSelect Max Fast Hyb Buffer, 16 Hybs	Mixture
	SureSelect RNase Block	Mixture
	Blocker Mix, ILM	Mixture
	SureSelect Post- Capture Primer Mix	Mixture
	Amplification Master Mix	Mixture

Ingredient name	%	CAS number
SureSelect Max Fast Hyb Buffer, 16 Hybs		
Ammonium chloride	≤3	12125-02-9
SureSelect RNase Block		
Glycerol	≥50 - ≤75	56-81-5
Amplification Master Mix		
Glycerol	≥25 - ≤50	56-81-5
Trometamol	≤10	77-86-1
tetramethylammonium chloride	≤7.6	75-57-0

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	SureSelect 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.

Section 4. First aid measures

Inhalation

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. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
: 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 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.
Blocker Mix, ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Post- Capture Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Amplification Master Mix	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.

Section 4. First aid measures

Skin contact

- | | |
|--|---|
| : SureSelect Max Fast Hyb Buffer,
16 Hybs | 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 RNase Block | 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. |
| Blocker Mix, ILM | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| SureSelect Post- Capture Primer Mix | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Amplification Master Mix | 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. |

Ingestion

- | | |
|--|--|
| : SureSelect Max Fast Hyb Buffer,
16 Hybs | 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 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 |

Section 4. First aid measures

Amplification Master Mix

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. 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

- | | |
|---|---|
| : SureSelect Max Fast Hyb Buffer, 16 Hybs | No known significant effects or critical hazards. |
| SureSelect RNase Block | Causes eye irritation. |
| 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 serious eye irritation. |

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. |

Over-exposure signs/symptoms

Section 4. First aid measures

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.

4.3 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.

Section 4. First aid measures

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

5.1 Extinguishing media

Suitable extinguishing media	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Use an extinguishing agent suitable for the surrounding fire.
	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	None known.
	SureSelect RNase Block	None known.
	Blocker Mix, ILM	None known.
	SureSelect Post- Capture Primer Mix	None known.
	Amplification Master Mix	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: SureSelect Max Fast Hyb Buffer, 16 Hybs	In a fire or if heated, a pressure increase will occur and the container may burst.
	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

Section 5. Fire-fighting measures

Hazardous thermal decomposition products

: SureSelect Max Fast Hyb Buffer,
16 Hybs

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.

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds
metal oxide/oxides

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide

No specific data.

No specific data.

SureSelect RNase Block

Blocker Mix, ILM

SureSelect Post- Capture Primer
Mix

Amplification Master Mix

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

5.3 Advice for firefighters

Special protective actions for fire-fighters

: SureSelect 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

Fire-fighters should wear appropriate protective

Section 5. Fire-fighting measures

Mix	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

6.1 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.
	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

Section 6. Accidental release measures

	SureSelect Post- Capture Primer Mix	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".
	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".
6.2 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 caused environmental pollution (sewers, waterways, soil or air).
	Amplification Master Mix	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.

6.3 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	Stop leak if without risk. Move containers from spill

Section 6. Accidental release measures

Mix	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

7.1 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 reuse container.
	Blocker Mix, ILM	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.

Section 7. Handling and storage

	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.
7.2 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 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 RNase Block	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

Section 7. Handling and storage

Amplification Master Mix

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. 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.

7.3 Specific end use(s)

Recommendations

SureSelect Max Fast Hyb Buffer, 16 Hybs	Industrial applications, Professional applications.
SureSelect RNase Block	Industrial applications, Professional applications.
Blocker Mix, ILM	Industrial applications, Professional applications.
SureSelect Post- Capture Primer Mix	Industrial applications, Professional applications.
Amplification Master Mix	Industrial applications, Professional applications.

Industrial sector specific solutions

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 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	ACGIH TLV (United States, 1/2023). [Ammonium chloride] TWA: 10 mg/m ³ 8 hours. Form: Fume STEL: 20 mg/m ³ 15 minutes. Form: Fume NIOSH REL (United States, 10/2020). [AMMONIUM CHLORIDE FUME] TWA: 10 mg/m ³ 10 hours. Form: Fume STEL: 20 mg/m ³ 15 minutes. Form: Fume OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m ³ 8 hours. STEL: 20 mg/m ³ 15 minutes. CAL OSHA PEL (United States, 5/2018). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours.
SureSelect RNase Block	

Section 8. Exposure controls/personal protection

Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: respirable fraction TWA: 10 mg/m ³ 8 hours. Form: total dust
Amplification Master Mix Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: respirable fraction TWA: 10 mg/m ³ 8 hours. Form: total dust
Trometamol tetramethylammonium chloride	None. None.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

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.
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.
	Amplification Master 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

Section 9. Physical and chemical properties and safety characteristics

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

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

Section 9. Physical and chemical properties and safety characteristics

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.

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

Section 9. Physical and chemical properties and safety characteristics

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.

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

10.1 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.

Section 10. Stability and reactivity

10.2 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.
10.3 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.
10.4 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.
10.5 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.
10.6 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

11.1 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

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)

Section 11. Toxicological information

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	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
SureSelect RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Blocker Mix, ILM	Not available.
SureSelect Post- Capture Primer Mix	Not available.
Amplification Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact

SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
SureSelect RNase Block	Causes eye irritation.
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 serious eye irritation.

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.

Section 11. Toxicological information

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

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Section 11. Toxicological information

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

Other information	: SureSelect RNase Block	Adverse symptoms may include the following: May cause skin sensitization.
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Section 12. Ecological information

12.1 Toxicity

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

12.2 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

12.3 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

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 13. Disposal considerations

for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
Clean Water Act (CWA) 311: Ammonium chloride; Edetic acid

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

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

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
EYE IRRITATION - Category 2B
Not applicable.
Not applicable.
ACUTE TOXICITY (oral) - Category 4
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	≤3	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
SureSelect RNase Block Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Amplification Master Mix Glycerol Trometamol	≥25 - ≤50 ≤10	EYE IRRITATION - Category 2B COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
tetramethylammonium chloride	≤7.6	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	12125-02-9	≤3
Supplier notification	SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	12125-02-9	≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: GLYCERINE MIST
New York	: None of the components are listed.
New Jersey	: The following components are listed: GLYCERIN
Pennsylvania	: The following components are listed: 1,2,3-PROPANETRIOL
California Prop. 65	

This product does not require a Safe Harbor warning under California Prop. 65.

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

Australia	: Not determined.
Canada	: Not determined.

Section 15. Regulatory information

China	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

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 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method Calculation method Calculation method Calculation method

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 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

Indicates information that has changed from previously issued version.

Notice to reader

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