

SAFETY DATA SHEET

SureSelect Max Target Enrichment Kit Overnight Hyb Module, Box 2, 16_96 Hybs

Section 1. Identification

Product identifier : SureSelect Max Target Enrichment Kit Overnight Hyb Module, Box 2, 16_96 Hybs

Part no. (chemical kit) : 5282-0133, 5282-0135

Part no. : SureSelect Hyb 3 5190-4382 / 5972-3696
 SureSelect RNase Block 5190-4383 / 5972-3700
 Amplification Master Mix 5271-0079 / 5271-0083

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

Identified uses : Analytical reagent.
 For research use only.
 SureSelect Hyb 3 0.16 ml / 0.4 ml
 SureSelect RNase Block 0.016 ml / 0.08 ml
 Amplification Master Mix 0.45 ml (16 reactions) / 2.84 (96 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 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

Hazard pictograms : Amplification Master Mix



Signal word : SureSelect Hyb 3 No signal word.
 SureSelect RNase Block Warning
 Amplification Master Mix Danger

Section 2. Hazard identification

Hazard statements	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No known significant effects or critical hazards. H320 - Causes eye irritation. H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H370 - Causes damage to organs.(central nervous system (CNS)) H412 - Harmful to aquatic life with long lasting effects.
<u>Precautionary statements</u>		
Prevention	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	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 Hyb 3 SureSelect RNase Block Amplification Master Mix	Not applicable. 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. 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. 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 Hyb 3 SureSelect RNase Block Amplification Master Mix	Not applicable. Not applicable. Not applicable.
Disposal	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix SureSelect Hyb 3	None known. None known. None known. Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3%
Other hazards which do not result in classification	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture : SureSelect Hyb 3 Mixture
 SureSelect RNase Block Mixture
 Amplification Master Mix Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
SureSelect RNase Block			
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 Hyb 3	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 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.
	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.
Inhalation	: SureSelect Hyb 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	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.
	Amplification Master Mix	Remove victim to fresh air and keep at rest in a

Section 4. First-aid measures

		<p>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>
Skin contact	: SureSelect Hyb 3	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</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>
	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 Hyb 3	<p>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.</p>
	SureSelect RNase Block	<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 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.</p>
	Amplification Master Mix	<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. 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.</p>

Section 4. First-aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No known significant effects or critical hazards. Causes eye irritation. Causes serious eye irritation.
Inhalation	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs following a single exposure if inhaled.
Skin contact	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
Ingestion	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Eye contact	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No specific data. Adverse symptoms may include the following: irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No specific data. No specific data. No specific data.
Skin contact	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No specific data. No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No specific data. No specific data. No specific data.

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

Notes to physician	: SureSelect Hyb 3 SureSelect RNase Block 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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 Hyb 3 SureSelect RNase Block Amplification Master Mix	No specific treatment. No specific treatment. No specific treatment.

Section 4. First-aid measures

Protection of first-aiders	: SureSelect Hyb 3	No action shall be taken involving any personal risk or without suitable training.
	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.
	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 Hyb 3	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect RNase Block	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 Hyb 3	None known.
	SureSelect RNase Block	None known.
	Amplification Master Mix	None known.

Specific hazards arising from the chemical

:	SureSelect Hyb 3	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.
	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 Hyb 3	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds carbonyl halides
	SureSelect RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	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 Hyb 3	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.
	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 Hyb 3	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.
	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 Hyb 3	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 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.
	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 Hyb 3	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".
	Amplification Master Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on

Section 6. Accidental release measures

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : SureSelect Hyb 3

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).

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.

Methods and materials for containment and cleaning up

Methods for cleaning up : SureSelect Hyb 3

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.

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 Hyb 3

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

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.

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

Section 7. Handling and storage

Advice on general occupational hygiene

: SureSelect Hyb 3

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.

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.

Amplification Master Mix

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

Conditions for safe storage, including any incompatibilities

: SureSelect Hyb 3

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.

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

Section 7. Handling and storage

environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
SureSelect RNase Block Glycerol	CA Alberta Provincial (Canada, 3/2023). OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 9/2023). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 4/2021). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 8/2023). 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, 3/2023). OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 9/2023). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 4/2021). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 8/2023). 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.

[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](#)

Section 8. Exposure controls/personal protection

- Hygiene measures** : Handle as biohazard material (Biosafety level 1). 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 Hyb 3 SureSelect RNase Block Amplification Master Mix	Liquid. Liquid. Liquid.
Color	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Not available. Not available. Not available.
Odor	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Not available. Not available. Not available.
Odor threshold	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Not available. Not available. Not available.
pH	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	7 7.6 8.5
Melting point/freezing point	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	0°C (32°F) Not available. Not available.

Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range : SureSelect Hyb 3 100°C (212°F)
 SureSelect RNase Block Not available.
 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 Hyb 3 Not available.
 SureSelect RNase Block Not available.
 Amplification Master Mix Not available.

Flammability : SureSelect Hyb 3 Not applicable.
 SureSelect RNase Block Not applicable.
 Amplification Master Mix Not applicable.

Lower and upper explosion limit/flammability limit : SureSelect Hyb 3 Not available.
 SureSelect RNase Block 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 Hyb 3						
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	-
Amplification Master Mix						
water	17.5	2.3	-	92.258	12.3	-
Trometamol	<0.00075006	<0.0001	-	-	-	-

Relative vapor density : SureSelect Hyb 3 Not available.
 SureSelect RNase Block Not available.
 Amplification Master Mix Not available.

Relative density : SureSelect Hyb 3 Not available.
 SureSelect RNase Block Not available.
 Amplification Master Mix Not available.

Section 9. Physical and chemical properties and safety characteristics

Solubility(ies)	Media	Result																				
	SureSelect Hyb 3 water	Soluble																				
	SureSelect RNase Block water	Soluble																				
	Amplification Master Mix water	Soluble																				
Partition coefficient: n-octanol/water	SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Not applicable. Not applicable. Not applicable.																				
Auto-ignition temperature	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>°C</th> <th>°F</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>SureSelect RNase Block</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Glycerol</td> <td>370</td> <td>698</td> <td>-</td> </tr> <tr> <td>Amplification Master Mix</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Glycerol</td> <td>370</td> <td>698</td> <td>-</td> </tr> </tbody> </table>	Ingredient name	°C	°F	Method	SureSelect RNase Block				Glycerol	370	698	-	Amplification Master Mix				Glycerol	370	698	-	
Ingredient name	°C	°F	Method																			
SureSelect RNase Block																						
Glycerol	370	698	-																			
Amplification Master Mix																						
Glycerol	370	698	-																			
Decomposition temperature	SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Not available. Not available. Not available.																				
Viscosity	SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Not available. Not available. Not available.																				
Particle characteristics																						
Median particle size	SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Not applicable. Not applicable. Not applicable.																				

Section 10. Stability and reactivity

Reactivity	SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	The product is stable. The product is stable. The product is stable.
Possibility of hazardous reactions	SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	No specific data. No specific data. No specific data.

Section 10. Stability and reactivity

Incompatible materials	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
Hazardous decomposition products	: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect 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 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.

Section 11. Toxicological information

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)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: SureSelect Hyb 3
SureSelect RNase Block
Amplification Master Mix

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

Potential acute health effects

Eye contact

: SureSelect Hyb 3
SureSelect RNase Block
Amplification Master Mix

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

Inhalation

: SureSelect Hyb 3
SureSelect RNase Block
Amplification Master Mix

No known significant effects or critical hazards.
No known significant effects or critical hazards.
Causes damage to organs following a single exposure if inhaled.

Skin contact

: SureSelect Hyb 3
SureSelect RNase Block
Amplification Master Mix

No known significant effects or critical hazards.
No known significant effects or critical hazards.
Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.

Ingestion

: SureSelect Hyb 3
SureSelect RNase Block
Amplification Master Mix

No known significant effects or critical hazards.
No known significant effects or critical hazards.
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 Hyb 3
SureSelect RNase Block
Amplification Master Mix

No specific data.
Adverse symptoms may include the following:
irritation
watering
redness
Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation

: SureSelect Hyb 3
SureSelect RNase Block
Amplification Master Mix

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

Skin contact

: SureSelect Hyb 3
SureSelect RNase Block
Amplification Master Mix

No specific data.
No specific data.
Adverse symptoms may include the following:
irritation
redness

Section 11. Toxicological information

Ingestion : SureSelect Hyb 3 No specific data.
 SureSelect RNase Block 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.

Potential chronic health effects

General : SureSelect Hyb 3 No known significant effects or critical hazards.
 SureSelect RNase Block No known significant effects or critical hazards.
 Amplification Master Mix No known significant effects or critical hazards.

Carcinogenicity : SureSelect Hyb 3 No known significant effects or critical hazards.
 SureSelect RNase Block No known significant effects or critical hazards.
 Amplification Master Mix No known significant effects or critical hazards.

Mutagenicity : SureSelect Hyb 3 No known significant effects or critical hazards.
 SureSelect RNase Block No known significant effects or critical hazards.
 Amplification Master Mix No known significant effects or critical hazards.

Reproductive toxicity : SureSelect Hyb 3 No known significant effects or critical hazards.
 SureSelect RNase Block No known significant effects or critical hazards.
 Amplification Master Mix 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 RNase Block Glycerol	12600	N/A	N/A	N/A	N/A
Amplification Master Mix Amplification Master Mix	1279.5	7677.0	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
tetramethylammonium chloride	50	300	N/A	N/A	N/A

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 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	Fish - <i>Oncorhynchus mykiss</i> Daphnia Daphnia	96 hours 48 hours 48 hours
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours

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	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Amplification Master Mix Trometamol	-	-	Readily
tetramethylammonium chloride	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
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.

Section 12. Ecological information

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

Section 13. Disposal considerations

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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 : 05/31/2024

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

Classification	Justification
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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