

SAFETY DATA SHEET

Early Access SureSelect XT HS Target Enrichment Kit, ILM Hyb Module, Box 2, 96 rxn, Part Number 5190-9535

Section 1. Identification

Product identifier	: Early Access SureSelect XT HS Target Enrichment Kit, ILM Hyb Module, Box 2, 96 rxn, Part Number 5190-9535
Part no. (chemical kit)	: 5190-9535
Part no.	: SureSelect XT HS and XT Low Input Blocker Mix 5190-9534 SureSelect Fast Hybridization Buffer 5190-7330 SureSelect RNase Block 5972-3700 SureSelect PCR Primer Mix 5190-8831
Material uses	: Analytical reagent. SureSelect XT HS and XT Low Input Blocker Mix 0.48 ml (96 reactions) SureSelect Fast Hybridization Buffer 0.918 ml SureSelect RNase Block 0.08 ml SureSelect PCR Primer Mix 3 x 0.048 ml (16 reactions)
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

GHS label elements

Signal word	: SureSelect XT HS and XT Low Input Blocker Mix	No signal word.
	SureSelect Fast Hybridization Buffer	No signal word.
	SureSelect RNase Block	Warning
	SureSelect PCR Primer Mix	No signal word.
Hazard statements	: SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	H320 - Causes eye irritation.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.

Precautionary statements

Prevention	: SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	P264 - Wash hands thoroughly after handling.
	SureSelect PCR Primer Mix	Not applicable.

Section 2. Hazard identification

Response	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block	Not applicable. 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 attention.
Storage	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Fast Hybridization Buffer	None known. None known. None known. None known. Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%
Other hazards which do not result in classification	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	None known. None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Mixture Mixture Mixture Mixture
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Section 3. Composition/information on ingredients

Ingredient name	% (w/w)	CAS number
SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3	1185-53-1
SureSelect RNase Block Glycerol	≥50 - ≤75	56-81-5

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

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	: SureSelect XT HS and XT Low Input Blocker 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.
	SureSelect Fast Hybridization Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect 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.
	SureSelect PCR 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.
Inhalation	: SureSelect XT HS and XT Low Input Blocker Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Fast Hybridization Buffer	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.
	SureSelect PCR Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First-aid measures

Skin contact	: SureSelect XT HS and XT Low Input Blocker Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Fast Hybridization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	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.
	SureSelect PCR Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: SureSelect XT HS and XT Low Input Blocker Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Fast Hybridization Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect RNase Block	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	SureSelect PCR Primer Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First-aid measures

Eye contact	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards.
Inhalation	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer 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. No known significant effects or critical hazards.
Skin contact	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer 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. No known significant effects or critical hazards.
Ingestion	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer 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. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data.
Inhalation	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. No specific data. No specific data. No specific data.
Skin contact	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. No specific data. No specific data. No specific data.
Ingestion	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. No specific data. No specific data. No specific data.

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

Section 4. First-aid measures

Notes to physician	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. 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. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	None known. None known. None known. None known.
Specific hazards arising from the chemical	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer	and the container may burst. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	SureSelect RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SureSelect PCR Primer Mix	No specific data.
Special protective actions for fire-fighters	: SureSelect XT HS and XT Low Input Blocker 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.
	SureSelect Fast Hybridization Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect 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.
	SureSelect PCR 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.
Special protective equipment for fire-fighters	: SureSelect XT HS and XT Low Input Blocker Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Fast Hybridization Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect 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.
	SureSelect PCR Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Section 6. Accidental release measures

For non-emergency personnel	: SureSelect XT HS and XT Low Input Blocker 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.
	SureSelect Fast Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	SureSelect 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.
	SureSelect PCR 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.
For emergency responders	: SureSelect XT HS and XT Low Input Blocker 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".
	SureSelect Fast Hybridization Buffer	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".
	SureSelect PCR Primer Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: SureSelect XT HS and XT Low Input Blocker 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).
	SureSelect Fast Hybridization Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	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).

Section 6. Accidental release measures

SureSelect PCR 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).

Methods and materials for containment and cleaning up

Methods for cleaning up	: SureSelect XT HS and XT Low Input Blocker 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.
	SureSelect Fast Hybridization Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureSelect 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.
	SureSelect PCR Primer Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). 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.
	SureSelect PCR Primer Mix	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: SureSelect XT HS and XT Low Input Blocker 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.
	SureSelect Fast Hybridization Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and

Section 7. Handling and storage

	SureSelect RNase Block	<p>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.</p>
	SureSelect PCR Primer Mix	<p>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.</p>
<p>Conditions for safe storage, including any incompatibilities</p>	<p>SureSelect XT HS and XT Low Input Blocker Mix</p>	<p>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.</p>
	SureSelect Fast Hybridization Buffer	<p>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.</p>
	SureSelect RNase Block	<p>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.</p>
	SureSelect PCR Primer Mix	<p>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</p>

Section 7. Handling and storage

ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
SureSelect RNase Block Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 5/2019). TWA: 3 mg/m ³ 8 hours. Form: respirable mist TWA: 10 mg/m ³ 8 hours. Form: total mist

[Appropriate engineering controls](#)

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

[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

Appearance

- Physical state** : SureSelect XT HS and XT Low Input Blocker Mix Liquid.
 SureSelect Fast Hybridization Buffer Liquid.
 SureSelect RNase Block SureSelect PCR Primer Mix Liquid.
- Color** : SureSelect XT HS and XT Low Input Blocker Mix Not available.
 SureSelect Fast Hybridization Buffer Not available.
 SureSelect RNase Block SureSelect PCR Primer Mix Not available.
- Odor** : SureSelect XT HS and XT Low Input Blocker Mix Not available.
 SureSelect Fast Hybridization Buffer Not available.
 SureSelect RNase Block SureSelect PCR Primer Mix Not available.
- Odor threshold** : SureSelect XT HS and XT Low Input Blocker Mix Not available.
 SureSelect Fast Hybridization Buffer Not available.
 SureSelect RNase Block SureSelect PCR Primer Mix Not available.
- pH** : SureSelect XT HS and XT Low Input Blocker Mix 7.5
 SureSelect Fast Hybridization Buffer Not available.
 SureSelect RNase Block 7.6
 SureSelect PCR Primer Mix 7 to 8

Section 9. Physical and chemical properties

Melting point	: SureSelect XT HS and XT	0°C (32°F)
	Low Input Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
Boiling point	SureSelect PCR Primer Mix	0°C (32°F)
	: SureSelect XT HS and XT	100°C (212°F)
	Low Input Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
Flash point	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	100°C (212°F)
	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	
	SureSelect Fast	Not available.
Evaporation rate	Hybridization Buffer	
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	
Flammability (solid, gas)	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.
	: SureSelect XT HS and XT	Not applicable.
Lower and upper explosive (flammable) limits	Low Input Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
Vapor pressure	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
Vapor density	SureSelect PCR Primer Mix	Not available.
	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
Relative density	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	

Section 9. Physical and chemical properties

Solubility	: SureSelect XT HS and XT	Easily soluble in the following materials: cold water and hot water.
	Low Input Blocker Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect Fast	Easily soluble in the following materials: cold water and hot water.
	Hybridization Buffer	Soluble in the following materials: cold water and hot water.
	SureSelect RNase Block	Soluble in the following materials: cold water and hot water.
	SureSelect PCR Primer Mix	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
Auto-ignition temperature	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
Decomposition temperature	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
Viscosity	: SureSelect XT HS and XT	Not available.
	Low Input Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.

Section 10. Stability and reactivity

Reactivity	: SureSelect XT HS and XT	No specific test data related to reactivity available for this product or its ingredients.
	Low Input Blocker Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Fast	No specific test data related to reactivity available for this product or its ingredients.
	Hybridization Buffer	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.
	SureSelect PCR Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: SureSelect XT HS and XT	The product is stable.
	Low Input Blocker Mix	The product is stable.
	SureSelect Fast	The product is stable.
	Hybridization Buffer	The product is stable.
	SureSelect RNase Block	The product is stable.
	SureSelect PCR Primer Mix	The product is stable.

Section 10. Stability and reactivity

Possibility of hazardous reactions	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer 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. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. No specific data. No specific data.
Incompatible materials	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer 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. May react or be incompatible with oxidizing materials.
Hazardous decomposition products	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer 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. 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	-

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	-

Sensitization

Not available.

Mutagenicity

Section 11. Toxicological information

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : SureSelect XT HS and XT Low Input Blocker Mix Not available.
SureSelect Fast Hybridization Buffer Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect RNase Block Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect PCR Primer Mix Not available.

Potential acute health effects

Eye contact : SureSelect XT HS and XT Low Input Blocker Mix No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer No known significant effects or critical hazards.
SureSelect RNase Block Causes eye irritation.
SureSelect PCR Primer Mix No known significant effects or critical hazards.

Inhalation : SureSelect XT HS and XT Low Input Blocker Mix No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer No known significant effects or critical hazards.
SureSelect RNase Block No known significant effects or critical hazards.
SureSelect PCR Primer Mix No known significant effects or critical hazards.

Skin contact : SureSelect XT HS and XT Low Input Blocker Mix No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer No known significant effects or critical hazards.
SureSelect RNase Block No known significant effects or critical hazards.
SureSelect PCR Primer Mix No known significant effects or critical hazards.

Ingestion : SureSelect XT HS and XT Low Input Blocker Mix No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer No known significant effects or critical hazards.
SureSelect RNase Block No known significant effects or critical hazards.
SureSelect PCR Primer Mix No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block	No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness
Inhalation	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Skin contact	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Ingestion	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No specific data. No specific data. No specific data. No specific data. No specific data. 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 XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer 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.
Carcinogenicity	: SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer 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.

Section 11. Toxicological information

Mutagenicity	: SureSelect XT HS and XT	No known significant effects or critical hazards.
	Low Input Blocker Mix	
Teratogenicity	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS and XT	No known significant effects or critical hazards.
	Low Input Blocker Mix	
Developmental effects	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS and XT	No known significant effects or critical hazards.
	Low Input Blocker Mix	
Fertility effects	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS and XT	No known significant effects or critical hazards.
	Low Input Blocker Mix	

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

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	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	-	-

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect RNase Block Glycerol	-1.76	-	low

Mobility in soil

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

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

Section 13. Disposal considerations

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

Transport in bulk according to Annex II of MARPOL and the IBC Code : 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.

Section 15. Regulatory information

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

[Inventory list](#)

Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Europe	: Not determined.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: Not determined.

Section 16. Other information

[History](#)

Date of issue/Date of revision	: 12/19/2019
Date of previous issue	: 11/22/2018
Version	: 3
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

References : Not available.

✔ Indicates information that has changed from previously issued version.

[Notice to reader](#)

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