

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 of the substance/mixture and of the company/undertaking

1.1 Product identifier

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

Part No. (Kit) : 5190-9535

Part No. : SureSelect XT HS 5190-9534
Blocker Mix
SureSelect Fast 5190-7330
Hybridization Buffer
SureSelect RNase Block 5972-3700
SureSelect PCR Primer 5190-8831
Mix

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

Identified uses	
Analytical reagent.	
SureSelect XT HS Blocker Mix	0.48 mL
SureSelect Fast Hybridization Buffer	0.77 mL
SureSelect RNase Block	0.08 mL
SureSelect PCR Primer Mix	3 x 0.048 mL (16 reactions)

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : SureSelect XT HS Mixture
Blocker Mix
SureSelect Fast Mixture
Hybridization Buffer
SureSelect RNase Block Mixture
SureSelect PCR Primer Mixture
Mix

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Ingredients of unknown toxicity : SureSelect Fast Hybridization Buffer Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.6%

Date of issue/Date of revision : 14/09/2016

SECTION 2: Hazards identification

Ingredients of unknown ecotoxicity : SureSelect Fast Hybridization Buffer Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	No signal word. No signal word. No signal word. No signal word.
Hazard statements	: SureSelect XT HS 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.
<u>Precautionary statements</u>		
Prevention	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
Response	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: SureSelect XT HS 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 Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable.
Hazardous ingredients	: SureSelect Fast Hybridization Buffer	Not applicable.
Supplemental label elements	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not applicable. Safety data sheet available on request. Not applicable. Not applicable.

SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : SureSelect XT HS Not applicable.
 Blocker Mix
 SureSelect Fast Not applicable.
 Hybridization Buffer
 SureSelect RNase Block Not applicable.
 SureSelect PCR Primer Not applicable.
 Mix

Special packaging requirements

Tactile warning of danger : SureSelect XT HS Not applicable.
 Blocker Mix
 SureSelect Fast Not applicable.
 Hybridization Buffer
 SureSelect RNase Block Not applicable.
 SureSelect PCR Primer Not applicable.
 Mix

2.3 Other hazards

Other hazards which do not result in classification : SureSelect XT HS None known.
 Blocker Mix
 SureSelect Fast None known.
 Hybridization Buffer
 SureSelect RNase Block None known.
 SureSelect PCR Primer None known.
 Mix

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
SureSelect RNase Block Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified. See Section 16 for the full text of the H statements declared above.	[2]

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : SureSelect XT HS 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.
 Blocker Mix
 SureSelect Fast 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.
 Hybridization Buffer
 SureSelect RNase Block 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 PCR Primer Immediately flush eyes with plenty of water, occasionally

SECTION 4: First aid measures

	Mix	lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: SureSelect XT HS 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. Get medical attention if symptoms occur.
	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.
Skin contact	: SureSelect XT HS 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.
	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 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 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 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.
Protection of first-aiders	: SureSelect XT HS Blocker Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Fast Hybridization Buffer	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.
	SureSelect PCR Primer Mix	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

SECTION 4: First aid measuresPotential acute health effects

Eye contact	: SureSelect XT HS	No known significant effects or critical hazards.
	Blocker Mix	
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
Inhalation	: SureSelect XT HS	No known significant effects or critical hazards.
	Blocker Mix	
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
Skin contact	: SureSelect XT HS	No known significant effects or critical hazards.
	Blocker Mix	
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.
Ingestion	: SureSelect XT HS	No known significant effects or critical hazards.
	Blocker Mix	
	SureSelect Fast	No known significant effects or critical hazards.
	Hybridization Buffer	
	SureSelect RNase Block	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: SureSelect XT HS	No specific data.
	Blocker Mix	
	SureSelect Fast	No specific data.
	Hybridization Buffer	
	SureSelect RNase Block	No specific data.
Inhalation	: SureSelect XT HS	No specific data.
	Blocker Mix	
	SureSelect Fast	No specific data.
	Hybridization Buffer	
	SureSelect RNase Block	No specific data.
Skin contact	: SureSelect XT HS	No specific data.
	Blocker Mix	
	SureSelect Fast	No specific data.
	Hybridization Buffer	
	SureSelect RNase Block	No specific data.
Ingestion	: SureSelect XT HS	No specific data.
	Blocker Mix	
	SureSelect Fast	No specific data.
	Hybridization Buffer	
	SureSelect RNase Block	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 4: First aid measures

Notes to physician	:	SureSelect XT HS Blocker Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SureSelect Fast Hybridization Buffer	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.
		SureSelect PCR Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	SureSelect XT HS Blocker Mix	No specific treatment.
		SureSelect Fast Hybridization Buffer	No specific treatment.
		SureSelect RNase Block	No specific treatment.
		SureSelect PCR Primer Mix	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	SureSelect XT HS Blocker Mix	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect Fast Hybridization Buffer	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect PCR Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	SureSelect XT HS Blocker Mix	None known.
		SureSelect Fast Hybridization Buffer	None known.
		SureSelect RNase Block	None known.
		SureSelect PCR Primer Mix	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	SureSelect XT HS Blocker Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Fast Hybridization Buffer	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.
		SureSelect PCR Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	SureSelect XT HS Blocker Mix	No specific data.
		SureSelect Fast Hybridization Buffer	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.

5.3 Advice for firefighters

SECTION 5: Firefighting measures

Special precautions for fire-fighters	: SureSelect XT HS 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 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: SureSelect XT HS 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 spilt 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 spilt 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 spilt material. 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 spilt material. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

For emergency responders	: SureSelect XT HS Blocker Mix	If specialised 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 specialised 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 specialised 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 specialised 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 XT HS Blocker Mix	Avoid dispersal of spilt 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 spilt 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 spilt 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 PCR Primer Mix	Avoid dispersal of spilt 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: SureSelect XT HS 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.

6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Protective measures	: SureSelect XT HS Blocker Mix	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Fast Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8).
	SureSelect PCR Primer Mix	Put on appropriate personal protective equipment (see Section 8).
	SureSelect XT HS 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 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.
	SureSelect PCR 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: SureSelect XT HS Blocker Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
	SureSelect Fast Hybridization Buffer	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 unlabelled containers. Use appropriate containment to avoid environmental contamination.
	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 unlabelled containers. Use appropriate containment to avoid environmental contamination.
	SureSelect PCR Primer	Store in accordance with local regulations. Store in original

SECTION 7: Handling and storage

Mix 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations	: SureSelect XT HS	Industrial applications, Professional applications.
	Blocker Mix	
	SureSelect Fast	Industrial applications, Professional applications.
	Hybridization Buffer	
	SureSelect RNase Block	Industrial applications, Professional applications.
Industrial sector specific solutions	: SureSelect XT HS	Not applicable.
	Blocker Mix	
	SureSelect Fast	Not applicable.
	Hybridization Buffer	
	SureSelect RNase Block	Not applicable.
	SureSelect PCR Primer	Not applicable.
	Mix	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
SureSelect RNase Block Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

SECTION 8: Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- 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.
- 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: SureSelect XT HS	Liquid.
	Blocker Mix	
	SureSelect Fast	Liquid.
	Hybridization Buffer	
	SureSelect RNase	Liquid.
Colour	Block	
	SureSelect PCR Primer	Liquid.
	Mix	
	SureSelect XT HS	Not available.
	Blocker Mix	
Odour	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase	Not available.
	Block	
	SureSelect PCR Primer	Not available.
	Mix	

SECTION 9: Physical and chemical properties

Odour threshold	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
pH	: SureSelect XT HS Blocker Mix	7.5
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	7.6
	SureSelect PCR Primer Mix	7.5
Melting point/freezing point	: SureSelect XT HS Blocker Mix	0°C
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	0°C
Initial boiling point and boiling range	: SureSelect XT HS Blocker Mix	100°C
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	100°C
Flash point	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
Evaporation rate	: SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect PCR Primer Mix	Not available.
Flammability (solid, gas)	: SureSelect XT HS Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not available. Not available. Not available. Not available.
Vapour pressure	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not available. Not available. Not available. Not available.
Vapour density	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not available. Not available. Not available. Not available.
Relative density	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not available. Not available. Not available. Not available.
Solubility(ies)	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not available. Not available. Not available. Not available.
Auto-ignition temperature	: SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect PCR Primer Mix	Not available. Not available. Not available. Not available.

SECTION 9: Physical and chemical properties

Decomposition temperature	: SureSelect XT HS	Not available.
	Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase	Not available.
Viscosity	Block	
	SureSelect PCR Primer	Not available.
	Mix	
	SureSelect XT HS	Not available.
	Blocker Mix	
Explosive properties	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase	Not available.
	Block	
	SureSelect PCR Primer	Not available.
Oxidising properties	Mix	
	SureSelect XT HS	Not available.
	Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase	Not available.
	Block	
	SureSelect PCR Primer	Not available.
	Mix	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: SureSelect XT HS	No specific test data related to reactivity available for this product or its ingredients.
	Blocker Mix	
	SureSelect Fast	No specific test data related to reactivity available for this product or its ingredients.
	Hybridization Buffer	
	SureSelect RNase Block	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	SureSelect PCR Primer	No specific test data related to reactivity available for this product or its ingredients.
	Mix	
	SureSelect XT HS	The product is stable.
	Blocker Mix	
	SureSelect Fast	The product is stable.
10.3 Possibility of hazardous reactions	Hybridization Buffer	
	SureSelect RNase Block	The product is stable.
	SureSelect PCR Primer	The product is stable.
	Mix	
	SureSelect XT HS	Under normal conditions of storage and use, hazardous reactions will not occur.
	Blocker Mix	
	SureSelect Fast	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hybridization Buffer	
	SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect PCR Primer	Under normal conditions of storage and use, hazardous

SECTION 10: Stability and reactivity

Mix reactions will not occur.

10.4 Conditions to avoid : SureSelect XT HS No specific data.
 Blocker Mix
 SureSelect Fast No specific data.
 Hybridization Buffer
 SureSelect RNase Block No specific data.
 SureSelect PCR Primer No specific data.
 Mix

10.5 Incompatible materials : SureSelect XT HS May react or be incompatible with oxidising materials.
 Blocker Mix
 SureSelect Fast May react or be incompatible with oxidising materials.
 Hybridization Buffer
 SureSelect RNase Block May react or be incompatible with oxidising materials.
 SureSelect PCR Primer May react or be incompatible with oxidising materials.
 Mix

10.6 Hazardous decomposition products : SureSelect XT HS Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Blocker Mix
 SureSelect Fast Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Hybridization Buffer
 SureSelect RNase Block Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect PCR Primer Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Mix

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Information on likely routes of exposure : SureSelect XT HS Not available.
 Blocker Mix

SureSelect Fast Routes of entry anticipated: Oral, Dermal, Inhalation.

Hybridization Buffer

SureSelect RNase Block Routes of entry anticipated: Oral, Dermal, Inhalation.

SureSelect PCR Primer Not available.

Mix

Potential acute health effects

Inhalation : SureSelect XT HS No known significant effects or critical hazards.
 Blocker Mix

SureSelect Fast No known significant effects or critical hazards.

Hybridization Buffer

SureSelect RNase Block No known significant effects or critical hazards.

SureSelect PCR Primer No known significant effects or critical hazards.

Mix

Ingestion : SureSelect XT HS No known significant effects or critical hazards.

Blocker Mix

SureSelect Fast No known significant effects or critical hazards.

Hybridization Buffer

SureSelect RNase Block No known significant effects or critical hazards.

SureSelect PCR Primer No known significant effects or critical hazards.

Mix

SECTION 11: Toxicological information

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

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: SureSelect XT HS	No specific data.
	Blocker Mix	
	SureSelect Fast	No specific data.
	Hybridization Buffer	
	SureSelect RNase Block	No specific data.
Ingestion	SureSelect PCR Primer	No specific data.
	Mix	
	SureSelect XT HS	No specific data.
	Blocker Mix	
	SureSelect Fast	No specific data.
Skin contact	Hybridization Buffer	
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer	No specific data.
	Mix	
	SureSelect XT HS	No specific data.
Eye contact	Blocker Mix	
	SureSelect Fast	No specific data.
	Hybridization Buffer	
	SureSelect RNase Block	No specific data.
	SureSelect PCR Primer	No specific data.
	Mix	

Delayed and immediate effects as well as 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

SECTION 11: Toxicological information

General	: SureSelect XT HS 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 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.
Mutagenicity	: SureSelect XT HS 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.
Teratogenicity	: SureSelect XT HS 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.
Developmental effects	: SureSelect XT HS 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.
Fertility effects	: SureSelect XT HS 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 12: Ecological information**12.1 Toxicity**

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory information

ADR/RID / IMDG / IATA : Not regulated.

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	SureSelect XT HS Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.

Other EU regulations

Europe inventory : Not determined.

Ozone depleting substances (1005/2009/EU)

Date of issue/Date of revision : 14/09/2016

SECTION 15: Regulatory information

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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.

International lists**National inventory**

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

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Date of issue/Date of revision : 14/09/2016

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SECTION 16: Other information

SureSelect Fast Hybridization Buffer H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
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[Full text of classifications \[CLP/GHS\]](#)

SureSelect Fast Hybridization Buffer Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
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Date of issue/ Date of revision : 14/09/2016

Date of previous issue : No previous validation.

Version : 1

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