

SAFETY DATA SHEET



SureSelect Target Enrichment Kit - Paired End Module Box 2 - 16 Reactions, Part Number
931022

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : SureSelect Target Enrichment Kit - Paired End Module Box 2 - 16 Reactions, Part Number 931022

Part No. (Kit) : 931022

Part No. : SureSelect RNase Block 5190-4383
SureSelect ILM PCR Primers 5190-5443
SureSelect Hyb 3 5190-4382
SureSelect Block 2 5190-4381
SureSelect Block 1 5190-5439
SureSelect PE Block 3 5190-5441

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

Identified uses	
Analytical reagent.	
SureSelect RNase Block	0.016 ml
SureSelect ILM PCR Primers	0.040 ml
SureSelect Hyb 3	0.16 ml
SureSelect Block 2	0.04 ml
SureSelect Block 1	0.04 ml
SureSelect PE Block 3	0.01 ml

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 RNase Block Mixture
SureSelect ILM PCR Primers Mixture
SureSelect Hyb 3 Mixture
SureSelect Block 2 Mixture
SureSelect Block 1 Mixture
SureSelect PE Block 3 Mixture

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

SureSelect RNase Block

H373

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

SECTION 2: Hazards identification

Ingredients of unknown toxicity	SureSelect RNase Block	Not applicable.
	SureSelect ILM PCR Primers	Not applicable.
	SureSelect Hyb 3	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 3%
	SureSelect Block 2	Not applicable.
	SureSelect Block 1	Not applicable.
Ingredients of unknown ecotoxicity	SureSelect PE Block 3	Not applicable.
	SureSelect RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 50%
	SureSelect ILM PCR Primers	Not applicable.
	SureSelect Hyb 3	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3%
	SureSelect Block 2	Not applicable.
SureSelect Block 1	Not applicable.	
SureSelect PE Block 3	Not applicable.	

Classification according to Directive 1999/45/EC [DPD]

SureSelect RNase Block	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
SureSelect ILM PCR Primers	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
SureSelect Hyb 3	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
SureSelect Block 2	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
SureSelect Block 1	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
SureSelect PE Block 3	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	SureSelect RNase Block	Not classified.
	SureSelect ILM PCR Primers	Not classified.
	SureSelect Hyb 3	Not classified.
	SureSelect Block 2	Not classified.
	SureSelect Block 1	Not classified.
	SureSelect PE Block 3	Not classified.

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

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

2.2 Label elements**Hazard pictograms**

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**Signal word**

:	SureSelect RNase Block	Warning
	SureSelect ILM PCR Primers	No signal word.
	SureSelect Hyb 3	No signal word.
	SureSelect Block 2	No signal word.
	SureSelect Block 1	No signal word.
	SureSelect PE Block 3	No signal word.

Hazard statements

:	SureSelect RNase Block	GHS08 - May cause damage to organs through prolonged or repeated exposure.
	SureSelect ILM PCR Primers	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Block 1	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.

SECTION 2: Hazards identification**Precautionary statements**

Prevention	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	P260 - Do not breathe vapour. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Response	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	P314 - Get medical attention if you feel unwell. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable. Not applicable.
Hazardous ingredients	:	SureSelect RNase Block Glycerol	
Supplemental label elements	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<u>Special packaging requirements</u>			
Tactile warning of danger	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	None known. None known. None known. None known. None known. None known.
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SECTION 3: Composition/information on ingredients

Substance/mixture : SureSelect RNase Block Mixture
 SureSelect ILM PCR Mixture
 Primers
 SureSelect Hyb 3 Mixture
 SureSelect Block 2 Mixture
 SureSelect Block 1 Mixture
 SureSelect PE Block 3 Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
SureSelect RNase Block Glycerol	EC: 200-289-5 CAS: 56-81-5	>=50 - <75	Not classified.	STOT RE 2, H373 (kidneys) (inhalation) See Section 16 for the full text of the H statements declared above.	[1]

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.

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : 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. Get medical attention following exposure or if feeling unwell.
 SureSelect ILM PCR Primers 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 Hyb 3 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
 SureSelect Block 2 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 Block 1 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 PE Block 3 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : 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 following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid measures

	SureSelect ILM PCR Primers	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Hyb 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect Block 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Block 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect PE Block 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: SureSelect RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	SureSelect ILM PCR Primers	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Hyb 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Block 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Block 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect PE Block 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 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 following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	SureSelect ILM PCR Primers	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 Hyb 3	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 Block 2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

SECTION 4: First aid measures

	SureSelect Block 1	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. 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 PE Block 3	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 RNase Block	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SureSelect ILM PCR Primers	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Hyb 3	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Block 2	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Block 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect PE Block 3	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

Eye contact	: SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect ILM PCR Primers	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Block 1	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.
Inhalation	: SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect ILM PCR Primers	No known significant effects or critical hazards.
	SureSelect Hyb 3	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Block 1	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.
Skin contact	: SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect ILM PCR Primers	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Block 1	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.
Ingestion	: SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect ILM PCR Primers	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Block 1	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.

Over-exposure signs/symptoms

SECTION 4: First aid measures

Eye contact	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Inhalation	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Skin contact	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Ingestion	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	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. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	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. 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.
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SECTION 5: Firefighting measures

Unsuitable extinguishing media	SureSelect RNase Block	None known.
	SureSelect ILM PCR Primers	None known.
	SureSelect Hyb 3	None known.
	SureSelect Block 2	None known.
	SureSelect Block 1	None known.
	SureSelect PE Block 3	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect ILM PCR Primers	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Hyb 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Block 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Block 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect PE Block 3	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	SureSelect RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SureSelect ILM PCR Primers	No specific data.
	SureSelect Hyb 3	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	SureSelect Block 2	No specific data.
	SureSelect Block 1	No specific data.
	SureSelect PE Block 3	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	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 ILM PCR Primers	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 Hyb 3	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Block 2	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 Block 1	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 PE Block 3	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	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 ILM PCR Primers	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

SECTION 5: Firefighting measures

SureSelect Hyb 3	fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. 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 Block 2	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 Block 1	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 PE Block 3	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 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	SureSelect ILM PCR Primers	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 Hyb 3	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Block 2	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 Block 1	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 PE Block 3	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

For emergency responders	: 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 ILM PCR Primers	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 Hyb 3	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 Block 2	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 Block 1	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 PE Block 3	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 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 ILM PCR Primers	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 Hyb 3	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 Block 2	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 Block 1	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 PE Block 3	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 materials for containment and cleaning up		
Methods for cleaning up	: 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 ILM PCR Primers	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 Hyb 3	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and

SECTION 6: Accidental release measures

SureSelect Block 2	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. 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 Block 1	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 PE Block 3	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	SureSelect ILM PCR Primers	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Hyb 3	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Block 2	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Block 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect PE Block 3	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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 ILM PCR Primers	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 Hyb 3	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 Block 2	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 7: Handling and storage

SureSelect Block 1	Section 8 for additional information on hygiene measures. 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 PE Block 3	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: SureSelect 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 ILM PCR Primers	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 Hyb 3	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureSelect Block 2	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 Block 1	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 PE Block 3	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to

SECTION 7: Handling and storage

prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations	: SureSelect RNase Block	Industrial applications, Professional applications.
	SureSelect ILM PCR Primers	Industrial applications.
	SureSelect Hyb 3	Industrial applications, Professional applications.
	SureSelect Block 2	Industrial applications, Professional applications.
	SureSelect Block 1	Industrial applications.
	SureSelect PE Block 3	Industrial applications.

Industrial sector specific solutions : Not applicable.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**Occupational exposure limits

No exposure limit value known.

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.

Derived effect levels

No DNELs available.

Predicted effect concentrations

No PNECs available.

8.2 Exposure controls

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

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: safety glasses with side-shields.

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** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 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 RNase Block Liquid.
SureSelect ILM PCR Primers Liquid.
SureSelect Hyb 3 Liquid.
SureSelect Block 2 Liquid.
SureSelect Block 1 Liquid.
SureSelect PE Block 3 Liquid.
- Colour** : SureSelect RNase Block Not available.
SureSelect ILM PCR Primers Not available.
SureSelect Hyb 3 Not available.
SureSelect Block 2 Colourless.
SureSelect Block 1 Not available.
SureSelect PE Block 3 Not available.
- Odour** : SureSelect RNase Block Not available.
SureSelect ILM PCR Primers Not available.
SureSelect Hyb 3 Not available.
SureSelect Block 2 Odourless.
SureSelect Block 1 Not available.
SureSelect PE Block 3 Not available.
- Odour threshold** : SureSelect RNase Block Not available.
SureSelect ILM PCR Primers Not available.
SureSelect Hyb 3 Not available.
SureSelect Block 2 Not available.
SureSelect Block 1 Not available.
SureSelect PE Block 3 Not available.

SECTION 9: Physical and chemical properties

pH	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	7 to 8
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
Melting point/freezing point	SureSelect PE Block 3	Not available.
	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	0°C
	SureSelect Hyb 3	0°C
	SureSelect Block 2	0°C
Initial boiling point and boiling range	SureSelect Block 1	0°C
	SureSelect PE Block 3	0°C
	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	100°C
	SureSelect Hyb 3	100°C
Flash point	SureSelect Block 2	100°C
	SureSelect Block 1	100°C
	SureSelect PE Block 3	100°C
	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
Evaporation rate	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
	SureSelect PE Block 3	Not available.
	: SureSelect RNase Block	Not available.
Flammability (solid, gas)	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect Block 1	Not available.
	SureSelect PE Block 3	Not available.
Upper/lower flammability or explosive limits	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
Vapour pressure	SureSelect PE Block 3	Not available.
	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
	SureSelect PE Block 3	Not available.

SECTION 9: Physical and chemical properties

Vapour density	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
Relative density	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
Solubility(ies)	: SureSelect RNase Block	Soluble in the following materials: cold water and hot water.
	SureSelect ILM PCR Primers	Easily soluble in the following materials: cold water and hot water.
	SureSelect Hyb 3	Easily soluble in the following materials: cold water and hot water.
	SureSelect Block 2	Easily soluble in the following materials: cold water and hot water.
	SureSelect Block 1	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
Auto-ignition temperature	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
Decomposition temperature	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
Viscosity	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.

SECTION 9: Physical and chemical properties

Explosive properties	: SureSelect RNase Block	Not available.
	SureSelect ILM PCR Primers	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Block 1	Not available.
	SureSelect PE Block 3	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: SureSelect RNase Block	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect ILM PCR Primers	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Hyb 3	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Block 2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Block 1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect PE Block 3	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability	: SureSelect RNase Block	The product is stable.
	SureSelect ILM PCR Primers	The product is stable.
	SureSelect Hyb 3	The product is stable.
	SureSelect Block 2	The product is stable.
	SureSelect Block 1	The product is stable.
	SureSelect PE Block 3	The product is stable.

10.3 Possibility of hazardous reactions	: SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect ILM PCR Primers	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Hyb 3	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Block 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Block 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect PE Block 3	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid	: SureSelect RNase Block	No specific data.
	SureSelect ILM PCR Primers	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Block 1	No specific data.
	SureSelect PE Block 3	No specific data.

10.5 Incompatible materials	: SureSelect RNase Block	No specific data.
	SureSelect ILM PCR Primers	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Block 1	No specific data.
	SureSelect PE Block 3	No specific data.

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	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. 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.
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
SureSelect RNase Block Glycerol	Category 2	Inhalation	kidneys

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Inhalation	: SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	No known significant effects or critical hazards. No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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SECTION 11: Toxicological information

Ingestion	: SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect ILM PCR Primers	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Block 1	No known significant effects or critical hazards.
Skin contact	: SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect ILM PCR Primers	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Block 1	No known significant effects or critical hazards.
Eye contact	: SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect ILM PCR Primers	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Block 1	No known significant effects or critical hazards.
	: SureSelect PE Block 3	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.
	SureSelect PE Block 3	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: SureSelect RNase Block	No specific data.
	SureSelect ILM PCR Primers	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Block 1	No specific data.
Ingestion	: SureSelect RNase Block	No specific data.
	SureSelect ILM PCR Primers	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Block 1	No specific data.
Skin contact	: SureSelect RNase Block	No specific data.
	SureSelect ILM PCR Primers	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Block 1	No specific data.
Eye contact	: SureSelect RNase Block	No specific data.
	SureSelect ILM PCR Primers	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Block 1	No specific data.
	: SureSelect PE Block 3	No specific data.
	SureSelect PE Block 3	No specific data.
	SureSelect PE Block 3	No specific data.
	SureSelect PE Block 3	No specific data.
	SureSelect PE Block 3	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.

SECTION 11: Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

General	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	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.
Mutagenicity	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	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.
Teratogenicity	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	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.
Developmental effects	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	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.
Fertility effects	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	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.

Toxicokinetics

Absorption	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	Not available. Not available. Not available. Not available. Not available. Not available.
Distribution	:	SureSelect RNase Block SureSelect ILM PCR Primers SureSelect Hyb 3 SureSelect Block 2 SureSelect Block 1 SureSelect PE Block 3	Not available. Not available. Not available. Not available. Not available. Not available.

SECTION 11: Toxicological information

Metabolism	:	SureSelect RNase Block	Not available.
		SureSelect ILM PCR Primers	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect Block 1	Not available.
		SureSelect PE Block 3	Not available.
Elimination	:	SureSelect RNase Block	Not available.
		SureSelect ILM PCR Primers	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect Block 1	Not available.
		SureSelect PE Block 3	Not available.
Other information	:	Not available.	

SECTION 12: Ecological information**12.1 Toxicity**

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

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

Mobility : Not available.

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 : The classification of the product may meet the criteria for a hazardous waste.

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.

SECTION 13: Disposal considerations

Special precautions : 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

Regulatory information

ADR/RID / IMDG / IATA : Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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

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 : Not applicable.

Other EU regulations

Europe inventory : Not determined.

Black List Chemicals : Not listed

Priority List Chemicals : Not listed

Integrated pollution prevention and control list (IPPC) - Air : Not listed

Integrated pollution prevention and control list (IPPC) - Water : Not listed

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
SureSelect RNase Block STOT RE 2, H373	Calculation method

SECTION 16: Other information

Full text of abbreviated H statements	: SureSelect RNase Block H373	May cause damage to organs through prolonged or repeated exposure.
	H373 (kidneys) (inhalation)	May cause damage to organs through prolonged or repeated exposure if inhaled. (kidneys)
Full text of classifications [CLP/GHS]	: SureSelect RNase Block STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	STOT RE 2, H373 (kidneys) (inhalation)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) (inhalation) - Category 2
Date of issue/ Date of revision	: 13/05/2014	
Date of previous issue	: 29/05/2012.	
Version	: 2	

Notice to reader

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