

SAFETY DATA SHEET

SureSelect Target Enrichment Kit-Ion Torrent Box 2- 50 Reactions, Part Number 5190-3781

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

1.1 Product identifier

Product name	: SureSelect Target Enrichment Kit-Ion Torrent Box 2- 50 Reactions, Part Number 5190-3781
Part No. (Kit)	: 5190-3781
Part No.	: SureSelect RNase Block 5190-1976 SureSelect Hyb #3 5190-1980 SureSelect Block #2 5190-1979 SureSelect Ion Torrent Block #1 5190-4235 SureSelect Ion Torrent Block #3 5190-3784 SureSelect Ion Torrent PCR Primer Mix 5190-3785

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

Identified uses	
Analytical reagent.	
SureSelect RNase Block	0.05 ml
SureSelect Hyb #3	0.7 ml
SureSelect Block #2	0.125 ml
SureSelect Ion Torrent Block #1	0.125 ml
SureSelect Ion Torrent Block #3	0.03 ml
SureSelect Ion Torrent PCR Primer Mix	0.225 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 Hyb #3 Mixture SureSelect Block #2 Mixture SureSelect Ion Torrent Block #1 Mixture SureSelect Ion Torrent Block #3 Mixture SureSelect Ion Torrent PCR Primer Mix Mixture
---------------------------	---

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

SureSelect RNase Block
H373

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Date of issue/Date of revision : 13/01/2014

1/25

SECTION 2: Hazards identification

Ingredients of unknown toxicity	:	SureSelect RNase Block	Not applicable.
		SureSelect Hyb #3	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 3%
		SureSelect Block #2	Not applicable.
		SureSelect Ion Torrent Block #1	Not applicable.
		SureSelect Ion Torrent Block #3	Not applicable.
		SureSelect Ion Torrent PCR Primer Mix	Not applicable.
Ingredients of unknown ecotoxicity	:	SureSelect RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 50%
		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 Ion Torrent Block #1	Not applicable.
		SureSelect Ion Torrent Block #3	Not applicable.
		SureSelect Ion Torrent PCR Primer Mix	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 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 Ion Torrent Block #1	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
SureSelect Ion Torrent Block #3	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
SureSelect Ion Torrent PCR Primer Mix	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	:	SureSelect RNase Block	Not classified.
		SureSelect Hyb #3	Not classified.
		SureSelect Block #2	Not classified.
		SureSelect Ion Torrent Block #1	Not classified.
		SureSelect Ion Torrent Block #3	Not classified.
		SureSelect Ion Torrent PCR Primer Mix	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**

:

**Signal word**

:

SureSelect RNase Block	Warning
SureSelect Hyb #3	No signal word.
SureSelect Block #2	No signal word.
SureSelect Ion Torrent Block #1	No signal word.
SureSelect Ion Torrent Block #3	No signal word.
SureSelect Ion Torrent PCR Primer Mix	No signal word.

SECTION 2: Hazards identification

Hazard statements	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	GHS08 - 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. No known significant effects or critical hazards. No known significant effects or critical hazards.
 <u>Precautionary statements</u>		
Prevention	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	P260 - Do not breathe vapour. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Response	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	P314 - Get medical attention if you feel unwell. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Hazardous ingredients	: SureSelect RNase Block Glycerol	
Supplemental label elements	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
 <u>Special packaging requirements</u>		

SECTION 2: Hazards identification

Tactile warning of danger : SureSelect RNase Block Not applicable.
 SureSelect Hyb #3 Not applicable.
 SureSelect Block #2 Not applicable.
 SureSelect Ion Torrent Block #1 Not applicable.
 SureSelect Ion Torrent Block #3 Not applicable.
 SureSelect Ion Torrent PCR Primer Mix Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : SureSelect RNase Block None known.
 SureSelect Hyb #3 None known.
 SureSelect Block #2 None known.
 SureSelect Ion Torrent Block #1 None known.
 SureSelect Ion Torrent Block #3 None known.
 SureSelect Ion Torrent PCR Primer Mix None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : SureSelect RNase Block Mixture
 SureSelect Hyb #3 Mixture
 SureSelect Block #2 Mixture
 SureSelect Ion Torrent Block #1 Mixture
 SureSelect Ion Torrent Block #3 Mixture
 SureSelect Ion Torrent PCR Primer Mix 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 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 Ion Torrent 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 Ion Torrent 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.
	SureSelect Ion Torrent PCR Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: SureSelect 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.
	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 Ion Torrent Block #1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Ion Torrent Block #3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Ion Torrent 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 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 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 Ion Torrent Block #1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Ion Torrent Block #3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SECTION 4: First aid measures

	SureSelect Ion Torrent PCR Primer Mix	symptoms occur. 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 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 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 Ion Torrent Block #1	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 Ion Torrent 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.
	SureSelect Ion Torrent 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 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 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 Ion Torrent Block #1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Ion Torrent Block #3	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Ion Torrent 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

Potential acute health effects

SECTION 4: First aid measures

Eye contact	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.
Inhalation	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.
Skin contact	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.
Ingestion	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	SureSelect RNase Block	No specific data.
		SureSelect Hyb #3	No specific data.
		SureSelect Block #2	No specific data.
		SureSelect Ion Torrent Block #1	No specific data.
		SureSelect Ion Torrent Block #3	No specific data.
		SureSelect Ion Torrent PCR Primer Mix	No specific data.
Inhalation	:	SureSelect RNase Block	No specific data.
		SureSelect Hyb #3	No specific data.
		SureSelect Block #2	No specific data.
		SureSelect Ion Torrent Block #1	No specific data.
		SureSelect Ion Torrent Block #3	No specific data.
		SureSelect Ion Torrent PCR Primer Mix	No specific data.
Skin contact	:	SureSelect RNase Block	No specific data.
		SureSelect Hyb #3	No specific data.
		SureSelect Block #2	No specific data.
		SureSelect Ion Torrent Block #1	No specific data.
		SureSelect Ion Torrent Block #3	No specific data.
		SureSelect Ion Torrent	No specific data.

SECTION 4: First aid measures

	PCR Primer Mix	
Ingestion	: SureSelect RNase Block	No specific data.
	SureSelect Hyb #3	No specific data.
	SureSelect Block #2	No specific data.
	SureSelect Ion Torrent Block #1	No specific data.
	SureSelect Ion Torrent Block #3	No specific data.
	SureSelect Ion Torrent PCR Primer Mix	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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

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

Suitable extinguishing media	: SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Hyb #3	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Block #2	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Ion Torrent Block #1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Ion Torrent Block #3	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Ion Torrent PCR Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: SureSelect RNase Block	None known.
	SureSelect Hyb #3	None known.
	SureSelect Block #2	None known.
	SureSelect Ion Torrent Block #1	None known.
	SureSelect Ion Torrent Block #3	None known.
	SureSelect Ion Torrent PCR Primer Mix	None known.

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures

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 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 Ion Torrent Block #1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Ion Torrent Block #3	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Ion Torrent PCR Primer Mix	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 Hyb #3	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	SureSelect Block #2	No specific data.
	SureSelect Ion Torrent Block #1	No specific data.
	SureSelect Ion Torrent Block #3	No specific data.
	SureSelect Ion Torrent PCR Primer Mix	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 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 Ion Torrent 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 Ion Torrent 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.
	SureSelect Ion Torrent 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 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 Hyb #3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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

SECTION 5: Firefighting measures

SureSelect Ion Torrent Block #1	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 Ion Torrent 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.
SureSelect Ion Torrent 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 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 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 Ion Torrent 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 Ion Torrent 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.
	SureSelect Ion Torrent 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.
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 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

SECTION 6: Accidental release measures

SureSelect Ion Torrent Block #1	unsuitable materials. See also the information in "For non-emergency personnel". 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 Ion Torrent 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".
SureSelect Ion Torrent 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 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 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 Ion Torrent 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 Ion Torrent 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).
SureSelect Ion Torrent 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 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 Hyb #3	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Block #2	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 Ion Torrent 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 Ion Torrent 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

SECTION 6: Accidental release measuresSureSelect Ion Torrent
PCR Primer Mix

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.

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 Hyb #3

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

SureSelect Block #2

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

SureSelect Ion Torrent
Block #1

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

SureSelect Ion Torrent
Block #3

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

SureSelect Ion Torrent
PCR Primer Mix

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 Hyb #3

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

SureSelect Block #2

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.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

SureSelect Ion Torrent
Block #1

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.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

SureSelect Ion Torrent
Block #3

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.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

SureSelect Ion Torrent
PCR Primer Mix

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.

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,

SECTION 7: Handling and storage

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 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 Ion Torrent 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 Ion Torrent 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 prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureSelect Ion Torrent PCR Primer Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed 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)

SECTION 7: Handling and storage

Recommendations	: SureSelect RNase Block	Industrial applications, Professional applications.
	SureSelect Hyb #3	Industrial applications, Professional applications.
	SureSelect Block #2	Industrial applications, Professional applications.
	SureSelect Ion Torrent Block #1	Industrial applications, Professional applications.
	SureSelect Ion Torrent Block #3	Industrial applications, Professional applications.
	SureSelect Ion Torrent PCR Primer Mix	Industrial applications, Professional 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

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.

SECTION 8: Exposure controls/personal protection

- 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 Hyb #3	Liquid.
	SureSelect Block #2	Liquid.
	SureSelect Ion Torrent Block #1	Liquid.
	SureSelect Ion Torrent Block #3	Liquid.
	SureSelect Ion Torrent PCR Primer Mix	Liquid.
Colour	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Colourless.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	Not available.
Odour	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Odourless.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	Not available.
Odour threshold	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	Not available.
pH	: SureSelect RNase Block	7.6
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	7.4
	SureSelect Ion Torrent Block #3	Not available.

SECTION 9: Physical and chemical properties

	SureSelect Ion Torrent PCR Primer Mix	Not available.
Melting point/freezing point	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	0°C
	SureSelect Block #2	0°C
	SureSelect Ion Torrent Block #1	0°C
	SureSelect Ion Torrent Block #3	0°C
	SureSelect Ion Torrent PCR Primer Mix	0°C
Initial boiling point and boiling range	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	100°C
	SureSelect Block #2	100°C
	SureSelect Ion Torrent Block #1	100°C
	SureSelect Ion Torrent Block #3	100°C
	SureSelect Ion Torrent PCR Primer Mix	100°C
Flash point	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	Not available.
Evaporation rate	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	Not available.
Flammability (solid, gas)	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	Not available.
Upper/lower flammability or explosive limits	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	Not available.

SECTION 9: Physical and chemical properties

Vapour pressure	:	SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	Not available.
		SureSelect Ion Torrent Block #1	Not available.
		SureSelect Ion Torrent Block #3	Not available.
		SureSelect Ion Torrent PCR Primer Mix	Not available.
Vapour density	:	SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	Not available.
		SureSelect Ion Torrent Block #1	Not available.
		SureSelect Ion Torrent Block #3	Not available.
		SureSelect Ion Torrent PCR Primer Mix	Not available.
Relative density	:	SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	1
		SureSelect Ion Torrent Block #1	Not available.
		SureSelect Ion Torrent Block #3	Not available.
		SureSelect Ion Torrent PCR Primer Mix	Not available.
Solubility(ies)	:	SureSelect RNase Block	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 Ion Torrent Block #1	Easily soluble in the following materials: cold water and hot water.
		SureSelect Ion Torrent Block #3	Easily soluble in the following materials: cold water and hot water.
		SureSelect Ion Torrent PCR Primer Mix	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	Not available.
		SureSelect Ion Torrent Block #1	Not available.
		SureSelect Ion Torrent Block #3	Not available.
		SureSelect Ion Torrent PCR Primer Mix	Not available.
Auto-ignition temperature	:	SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	Not available.
		SureSelect Ion Torrent Block #1	Not available.
		SureSelect Ion Torrent Block #3	Not available.
		SureSelect Ion Torrent PCR Primer Mix	Not available.

SECTION 9: Physical and chemical properties

Decomposition temperature	: SureSelect RNase Block	Not available.	
	SureSelect Hyb #3	Not available.	
	SureSelect Block #2	Not available.	
	SureSelect Ion Torrent Block #1	Not available.	
	SureSelect Ion Torrent Block #3	Not available.	
	SureSelect Ion Torrent PCR Primer Mix	Not available.	
	Viscosity	: SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	Not available.
SureSelect Ion Torrent Block #1		Not available.	
SureSelect Ion Torrent Block #3		Not available.	
SureSelect Ion Torrent PCR Primer Mix		Not available.	
Explosive properties		: SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	Not available.	
	SureSelect Ion Torrent Block #3	Not available.	
	SureSelect Ion Torrent PCR Primer Mix	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 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 Ion Torrent Block #1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Ion Torrent Block #3	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Ion Torrent PCR Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
	10.2 Chemical stability	: SureSelect RNase Block
SureSelect Hyb #3		The product is stable.
SureSelect Block #2		The product is stable.
SureSelect Ion Torrent Block #1		The product is stable.
SureSelect Ion Torrent Block #3		The product is stable.
SureSelect Ion Torrent PCR Primer Mix		The product is stable.

SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions : SureSelect RNase Block 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 Ion Torrent Block #1 Under normal conditions of storage and use, hazardous reactions will not occur.
 SureSelect Ion Torrent Block #3 Under normal conditions of storage and use, hazardous reactions will not occur.
 SureSelect Ion Torrent PCR Primer Mix Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : SureSelect RNase Block No specific data.
 SureSelect Hyb #3 No specific data.
 SureSelect Block #2 No specific data.
 SureSelect Ion Torrent Block #1 No specific data.
 SureSelect Ion Torrent Block #3 No specific data.
 SureSelect Ion Torrent PCR Primer Mix No specific data.

10.5 Incompatible materials : SureSelect RNase Block No specific data.
 SureSelect Hyb #3 No specific data.
 SureSelect Block #2 No specific data.
 SureSelect Ion Torrent Block #1 No specific data.
 SureSelect Ion Torrent Block #3 No specific data.
 SureSelect Ion Torrent PCR Primer Mix No specific data.

10.6 Hazardous decomposition products : SureSelect RNase Block Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Hyb #3 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Block #2 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Ion Torrent Block #1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Ion Torrent Block #3 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Ion Torrent PCR Primer Mix Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Acute toxicity estimates

Not available.

Irritation/Corrosion

SECTION 11: Toxicological information

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 Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	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. No known significant effects or critical hazards.
Ingestion	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Ion Torrent Block #1 SureSelect Ion Torrent Block #3 SureSelect Ion Torrent	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. No known significant effects or critical hazards.

SECTION 11: Toxicological information

PCR Primer Mix

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	SureSelect RNase Block	No specific data.
		SureSelect Hyb #3	No specific data.
		SureSelect Block #2	No specific data.
		SureSelect Ion Torrent Block #1	No specific data.
		SureSelect Ion Torrent Block #3	No specific data.
		SureSelect Ion Torrent PCR Primer Mix	No specific data.
Ingestion	:	SureSelect RNase Block	No specific data.
		SureSelect Hyb #3	No specific data.
		SureSelect Block #2	No specific data.
		SureSelect Ion Torrent Block #1	No specific data.
		SureSelect Ion Torrent Block #3	No specific data.
		SureSelect Ion Torrent PCR Primer Mix	No specific data.
Skin contact	:	SureSelect RNase Block	No specific data.
		SureSelect Hyb #3	No specific data.
		SureSelect Block #2	No specific data.
		SureSelect Ion Torrent Block #1	No specific data.
		SureSelect Ion Torrent Block #3	No specific data.
		SureSelect Ion Torrent PCR Primer Mix	No specific data.
Eye contact	:	SureSelect RNase Block	No specific data.
		SureSelect Hyb #3	No specific data.
		SureSelect Block #2	No specific data.
		SureSelect Ion Torrent Block #1	No specific data.
		SureSelect Ion Torrent Block #3	No specific data.
		SureSelect Ion Torrent PCR Primer Mix	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposureShort term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	SureSelect RNase Block	May cause damage to organs through prolonged or repeated exposure.
		SureSelect Hyb #3	No known significant effects or critical hazards.
		SureSelect Block #2	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Carcinogenicity	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.
Mutagenicity	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.
Teratogenicity	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.
Developmental effects	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.
Fertility effects	:	SureSelect RNase Block	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 Ion Torrent Block #1	No known significant effects or critical hazards.
		SureSelect Ion Torrent Block #3	No known significant effects or critical hazards.
		SureSelect Ion Torrent PCR Primer Mix	No known significant effects or critical hazards.
Toxicokinetics			
Absorption	:	SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	Not available.
		SureSelect Ion Torrent Block #1	Not available.
		SureSelect Ion Torrent Block #3	Not available.
		SureSelect Ion Torrent PCR Primer Mix	Not available.
Distribution	:	SureSelect RNase Block	Not available.
		SureSelect Hyb #3	Not available.
		SureSelect Block #2	Not available.
		SureSelect Ion Torrent Block #1	Not available.
		SureSelect Ion Torrent Block #3	Not available.
		SureSelect Ion Torrent	Not available.

SECTION 11: Toxicological information

	PCR Primer Mix	
Metabolism	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	Not available.
Elimination	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Ion Torrent Block #1	Not available.
	SureSelect Ion Torrent Block #3	Not available.
	SureSelect Ion Torrent PCR Primer Mix	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

SECTION 13: Disposal considerations

- 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. 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]

SECTION 16: Other information

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

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 : 13/01/2014

Date of previous issue : 13/12/2011.

Version : 2

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.