

SAFETY DATA SHEET

SureSelect Reagent Kit-PTN

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

1.1 Product identifier

Product name	: SureSelect Reagent Kit-PTN	
Part no. (chemical kit)	: G9605A, G9605B	
Part no.	: SureSelect Hyb 1	5190-4396 / 5190-4404
	SureSelect Hyb 2	5190-4397
	SureSelect Hyb 4	5190-4406
	SureSelect Binding Buffer	5190-4399 / 5190-4407
	SureSelect Wash Buffer 1	5190-4400 / 5190-4408
	SureSelect Wash Buffer 2	5190-4401 / 5190-4409
	SureSelect RNase Block	5190-4383 / 5190-4386
	SureSelect Hyb 3	5190-4382 / 5190-4385
	SureSelect Block 2	5190-4381 / 5190-4384
	SureSelect PTN Block 1	5190-6508 / 5190-6511
	SureSelect PTN Block 3	5190-6509 / 5190-6512
	SureSelect PTN PCR Primer Mix	5190-6510 / 5190-6513

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

Identified uses	: Analytical reagent.	
	SureSelect Hyb 1	0.4 ml - 2.4 ml
	SureSelect Hyb 2	1.25 ml
	SureSelect Hyb 4	1.25 ml
	SureSelect Binding Buffer	13.2 ml - 80 ml
	SureSelect Wash Buffer 1	8 ml - 48 ml
	SureSelect Wash Buffer 2	24 ml - 144 ml
	SureSelect RNase Block	0.016 ml - 0.1 ml
	SureSelect Hyb 3	0.16 ml - 0.96 ml
	SureSelect Block 2	0.04 ml - 0.24 ml
	SureSelect PTN Block 1	0.04 ml - 0.24 ml
	SureSelect PTN Block 3	0.01 ml - 0.058 ml
	SureSelect PTN PCR Primer Mix	0.075 ml - 0.435ml
Uses advised against	: None known.	

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
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

SureSelect Reagent Kit-PTN

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	SureSelect Hyb 1	Mixture
		SureSelect Hyb 2	Mixture
		SureSelect Hyb 4	Mixture
		SureSelect Binding Buffer	Mixture
		SureSelect Wash Buffer 1	Mixture
		SureSelect Wash Buffer 2	Mixture
		SureSelect RNase Block	Mixture
		SureSelect Hyb 3	Mixture
		SureSelect Block 2	Mixture
		SureSelect PTN Block 1	Mixture
		SureSelect PTN Block 3	Mixture
		SureSelect PTN PCR Primer Mix	Mixture

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

SureSelect Hyb 2

H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Category 2

SureSelect Hyb 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Hyb 2	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Hyb 4	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Binding Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Wash Buffer 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Wash Buffer 2	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect RNase Block	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Hyb 3	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Block 2	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect PTN Block 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect PTN Block 3	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect PTN PCR Primer Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity	:	SureSelect Hyb 1	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		SureSelect Hyb 2	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 10 - 30%
		SureSelect Binding Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		SureSelect RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		SureSelect Hyb 3	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%

Ingredients of unknown ecotoxicity	:	SureSelect Hyb 3	Contains 3% of components with unknown hazards to the aquatic environment
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SECTION 2: Hazards identification

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

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

2.2 Label elements

Hazard pictograms : SureSelect Hyb 2



Signal word :

SureSelect Hyb 1	No signal word.
SureSelect Hyb 2	Warning
SureSelect Hyb 4	No signal word.
SureSelect Binding Buffer	No signal word.
SureSelect Wash Buffer 1	No signal word.
SureSelect Wash Buffer 2	No signal word.
SureSelect RNase Block	No signal word.
SureSelect Hyb 3	No signal word.
SureSelect Block 2	No signal word.
SureSelect PTN Block 1	No signal word.
SureSelect PTN Block 3	No signal word.
SureSelect PTN PCR Primer Mix	No signal word.

Hazard statements :

SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
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 PTN Block 1	No known significant effects or critical hazards.
SureSelect PTN Block 3	No known significant effects or critical hazards.
SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.

Precautionary statements

Prevention :

SureSelect Hyb 1	Not applicable.
SureSelect Hyb 2	P280 - Wear eye or face protection. P260 - Do not breathe vapour.
SureSelect Hyb 4	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect Hyb 3	Not applicable.
SureSelect Block 2	Not applicable.
SureSelect PTN Block 1	Not applicable.
SureSelect PTN Block 3	Not applicable.
SureSelect PTN PCR Primer Mix	Not applicable.

SureSelect Reagent Kit-PTN

SECTION 2: Hazards identification

Response	: SureSelect Hyb 1 SureSelect Hyb 2	Not applicable. P314 - Get medical advice/attention if you feel unwell. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect RNase Block SureSelect Hyb 3 SureSelect Block 2 SureSelect PTN Block 1 SureSelect PTN Block 3 SureSelect PTN PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect RNase Block SureSelect Hyb 3 SureSelect Block 2 SureSelect PTN Block 1 SureSelect PTN Block 3 SureSelect PTN PCR Primer Mix	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect RNase Block SureSelect Hyb 3 SureSelect Block 2 SureSelect PTN Block 1 SureSelect PTN Block 3 SureSelect PTN PCR Primer Mix	Not applicable. 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. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Hazardous ingredients	: SureSelect Hyb 2	edetic acid
Supplemental label elements	: SureSelect Hyb 1 SureSelect Hyb 2 SureSelect Hyb 4 SureSelect Binding Buffer SureSelect Wash Buffer 1	Safety data sheet available on request. Not applicable. Not applicable. Not applicable. Not applicable.

SureSelect Reagent Kit-PTN

SECTION 2: Hazards identification

	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect PTN Block 1	Not applicable.
	SureSelect PTN Block 3	Not applicable.
	SureSelect PTN PCR Primer Mix	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	Not applicable.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect PTN Block 1	Not applicable.
	SureSelect PTN Block 3	Not applicable.
	SureSelect PTN PCR Primer Mix	Not applicable.

Special packaging requirements

Tactile warning of danger	SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	Not applicable.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect PTN Block 1	Not applicable.
	SureSelect PTN Block 3	Not applicable.
	SureSelect PTN PCR Primer Mix	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	SureSelect Hyb 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Hyb 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Hyb 4	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Binding Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Wash Buffer 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Wash Buffer 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect RNase Block	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Hyb 3	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Block 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SureSelect Reagent Kit-PTN

SECTION 2: Hazards identification

SureSelect PTN Block 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect PTN Block 3	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect PTN PCR Primer Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: SureSelect Hyb 1 None known.
	: SureSelect Hyb 2 None known.
	: SureSelect Hyb 4 None known.
	: SureSelect Binding Buffer None known.
	: SureSelect Wash Buffer 1 None known.
	: SureSelect Wash Buffer 2 None known.
	: SureSelect RNase Block None known.
	: SureSelect Hyb 3 None known.
	: SureSelect Block 2 None known.
	: SureSelect PTN Block 1 None known.
	: SureSelect PTN Block 3 None known.
	: SureSelect PTN PCR Primer Mix None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: SureSelect Hyb 1 Mixture
	: SureSelect Hyb 2 Mixture
	: SureSelect Hyb 4 Mixture
	: SureSelect Binding Buffer Mixture
	: SureSelect Wash Buffer 1 Mixture
	: SureSelect Wash Buffer 2 Mixture
	: SureSelect RNase Block Mixture
	: SureSelect Hyb 3 Mixture
	: SureSelect Block 2 Mixture
	: SureSelect PTN Block 1 Mixture
	: SureSelect PTN Block 3 Mixture
	: SureSelect PTN PCR Primer Mix Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
SureSelect Hyb 1 sodium dihydrogenorthophosphate	EC: 231-449-2 CAS: 7558-80-7	≤3	Eye Irrit. 2, H319	-	[1]
SureSelect Hyb 2 edetic acid	EC: 200-449-4 CAS: 60-00-4	≥10 - ≤25	Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT RE 2, H373 (respiratory tract) (inhalation)	ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1]
SureSelect RNase Block glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]

SureSelect Reagent Kit-PTN

SECTION 3: Composition/information on ingredients

			See Section 16 for the full text of the H statements declared above.		
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There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

SureSelect Hyb 1	[1] Substance classified with a health or environmental hazard
SureSelect Hyb 2	[1] Substance classified with a health or environmental hazard
SureSelect RNase Block	[1] Substance with a workplace exposure limit

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 Hyb 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 Hyb 2	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.
	SureSelect Hyb 4	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 Binding Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Wash Buffer 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 Wash Buffer 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 RNase Block	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect 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 PTN 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 PTN 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 PTN 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 Hyb 1
SureSelect Hyb 2		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

SECTION 4: First aid measures

recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SureSelect Hyb 4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect 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 PTN Block 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect PTN Block 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect PTN 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 Hyb 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Hyb 2	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 4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Hyb 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

SureSelect Reagent Kit-PTN

SECTION 4: First aid measures

Ingestion

SureSelect Block 2	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect PTN Block 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect PTN Block 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect PTN PCR Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
: SureSelect Hyb 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Hyb 2	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention 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 4	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect RNase Block	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Hyb 3	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Block 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

SECTION 4: First aid measures

	SureSelect PTN Block 1	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect PTN Block 3	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect PTN PCR Primer Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: SureSelect Hyb 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Hyb 2	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 4	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training.
	SureSelect 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 PTN Block 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect PTN Block 3	No action shall be taken involving any personal risk or without suitable training.
	SureSelect PTN 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

Eye contact	: SureSelect Hyb 1	No known significant effects or critical hazards.
	SureSelect Hyb 2	Causes serious eye irritation.
	SureSelect Hyb 4	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	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 PTN Block 1	No known significant effects or critical hazards.
	SureSelect PTN Block 3	No known significant effects or critical hazards.
	SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.

SureSelect Reagent Kit-PTN

SECTION 4: First aid measures

Inhalation	:	SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.
Skin contact	:	SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.
Ingestion	:	SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.

SureSelect Reagent Kit-PTN

SECTION 4: First aid measures

	SureSelect Block 2	No specific data.
	SureSelect PTN Block 1	No specific data.
	SureSelect PTN Block 3	No specific data.
	SureSelect PTN PCR Primer Mix	No specific data.
Inhalation	: SureSelect Hyb 1	No specific data.
	SureSelect Hyb 2	No specific data.
	SureSelect Hyb 4	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect PTN Block 1	No specific data.
	SureSelect PTN Block 3	No specific data.
	SureSelect PTN PCR Primer Mix	No specific data.
Skin contact	: SureSelect Hyb 1	No specific data.
	SureSelect Hyb 2	No specific data.
	SureSelect Hyb 4	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect PTN Block 1	No specific data.
	SureSelect PTN Block 3	No specific data.
	SureSelect PTN PCR Primer Mix	No specific data.
Ingestion	: SureSelect Hyb 1	No specific data.
	SureSelect Hyb 2	No specific data.
	SureSelect Hyb 4	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect PTN Block 1	No specific data.
	SureSelect PTN Block 3	No specific data.
	SureSelect PTN PCR Primer Mix	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: SureSelect Hyb 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Hyb 2	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 Hyb 4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Binding	Treat symptomatically. Contact poison treatment specialist

SureSelect Reagent Kit-PTN

SECTION 4: First aid measures

	Buffer	immediately if large quantities have been ingested or inhaled.
	SureSelect Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	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 PTN Block 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect PTN Block 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect PTN PCR Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: SureSelect Hyb 1	No specific treatment.
	SureSelect Hyb 2	No specific treatment.
	SureSelect Hyb 4	No specific treatment.
	SureSelect Binding Buffer	No specific treatment.
	SureSelect Wash Buffer 1	No specific treatment.
	SureSelect Wash Buffer 2	No specific treatment.
	SureSelect RNase Block	No specific treatment.
	SureSelect Hyb 3	No specific treatment.
	SureSelect Block 2	No specific treatment.
	SureSelect PTN Block 1	No specific treatment.
	SureSelect PTN Block 3	No specific treatment.
	SureSelect PTN PCR Primer Mix	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: SureSelect Hyb 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Hyb 2	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Hyb 4	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
	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 PTN Block 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect PTN Block 3	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect PTN PCR Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: SureSelect Hyb 1	None known.
	SureSelect Hyb 2	None known.
	SureSelect Hyb 4	None known.
	SureSelect Binding Buffer	None known.
	SureSelect Wash Buffer 1	None known.
	SureSelect Wash Buffer 2	None known.
	SureSelect RNase Block	None known.

SureSelect Reagent Kit-PTN

SECTION 5: Firefighting measures

SureSelect Hyb 3	None known.
SureSelect Block 2	None known.
SureSelect PTN Block 1	None known.
SureSelect PTN Block 3	None known.
SureSelect PTN PCR	None known.
Primer Mix	

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: SureSelect Hyb 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Hyb 2	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Hyb 4	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect 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 PTN Block 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect PTN Block 3	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect PTN PCR Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

: SureSelect Hyb 1	Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides
SureSelect Hyb 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
SureSelect Hyb 4 SureSelect Binding Buffer	No specific data. Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
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 sulfur oxides halogenated compounds carbonyl halides
SureSelect Block 2	No specific data.
SureSelect PTN Block 1	No specific data.
SureSelect PTN Block 3	No specific data.
SureSelect PTN PCR	No specific data.

SECTION 5: Firefighting measures

Primer Mix

5.3 Advice for firefighters

Special precautions for fire-fighters

: SureSelect Hyb 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 Hyb 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 Hyb 4	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 Binding Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 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 Wash Buffer 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 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 PTN 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 PTN 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 PTN 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 Hyb 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 Hyb 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 Hyb 4	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 Binding Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SureSelect Reagent Kit-PTN

SECTION 5: Firefighting measures

SureSelect Wash Buffer 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 Wash Buffer 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 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 basic level of protection for chemical incidents.
SureSelect PTN 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 PTN 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 PTN 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 Hyb 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 Hyb 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

SureSelect Hyb 4	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 Binding Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect Wash Buffer 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 Wash Buffer 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 RNase Block	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect 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 PTN 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 PTN 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 PTN 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.
: SureSelect Hyb 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 Hyb 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 Hyb 4	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 Binding	If specialised clothing is required to deal with the spillage,

For emergency responders

SureSelect Reagent Kit-PTN

SECTION 6: Accidental release measures

Buffer	take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Wash Buffer 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 Wash Buffer 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 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 unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect PTN 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 PTN 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 PTN 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 Hyb 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 Hyb 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 Hyb 4	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 Binding Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer 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 Wash Buffer 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 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).

SECTION 6: Accidental release measures

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 PTN 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 PTN 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 PTN PCR Primer Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : SureSelect Hyb 1

SureSelect Hyb 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 Hyb 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 Hyb 4	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 Binding Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Wash Buffer 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 Wash Buffer 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 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.

SureSelect Reagent Kit-PTN

SECTION 6: Accidental release measures

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

6.4 Reference to other sections : See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: SureSelect Hyb 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Hyb 2	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 4	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
	SureSelect RNase Block	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 PTN Block 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect PTN Block 3	Put on appropriate personal protective equipment (see Section 8).
	SureSelect PTN PCR Primer Mix	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: SureSelect Hyb 1	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 2	Eating, drinking and smoking should be prohibited in areas

SECTION 7: Handling and storage

	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 4	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 Binding Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Wash Buffer 1	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 Wash Buffer 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 8 for additional information on hygiene measures.
SureSelect RNase Block	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect 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 8 for additional information on hygiene measures.
SureSelect PTN Block 1	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 PTN 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.
SureSelect PTN PCR Primer Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also

SECTION 7: Handling and storage

Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage

: SureSelect Hyb 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. See Section 10 for incompatible materials before handling or use.

SureSelect Hyb 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. See Section 10 for incompatible materials before handling or use.

SureSelect Hyb 4

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

SureSelect Binding Buffer

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

SureSelect Wash Buffer 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. See Section 10 for incompatible materials before handling or use.

SureSelect Wash Buffer 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. See Section 10 for incompatible materials before handling or use.

SureSelect Reagent Kit-PTN**SECTION 7: Handling and storage**

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. See Section 10 for incompatible materials before handling or use.
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. See Section 10 for incompatible materials before handling or use.
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. See Section 10 for incompatible materials before handling or use.
SureSelect PTN 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. See Section 10 for incompatible materials before handling or use.
SureSelect PTN 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. See Section 10 for incompatible materials before handling or use.
SureSelect PTN 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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

SureSelect Reagent Kit-PTN

SECTION 7: Handling and storage

Recommendations	:	SureSelect Hyb 1	Industrial applications, Professional applications.
		SureSelect Hyb 2	Industrial applications, Professional applications.
		SureSelect Hyb 4	Industrial applications, Professional applications.
		SureSelect Binding Buffer	Industrial applications, Professional applications.
		SureSelect Wash Buffer 1	Industrial applications, Professional applications.
		SureSelect Wash Buffer 2	Industrial applications, Professional applications.
		SureSelect RNase Block	Industrial applications, Professional applications.
		SureSelect Hyb 3	Industrial applications, Professional applications.
		SureSelect Block 2	Industrial applications, Professional applications.
		SureSelect PTN Block 1	Industrial applications, Professional applications.
		SureSelect PTN Block 3	Industrial applications, Professional applications.
		SureSelect PTN PCR Primer Mix	Industrial applications, Professional applications.
Industrial sector specific solutions	:	SureSelect Hyb 1	Not available.
		SureSelect Hyb 2	Not available.
		SureSelect Hyb 4	Not available.
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect PTN Block 1	Not available.
		SureSelect PTN Block 3	Not available.
		SureSelect PTN PCR Primer Mix	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
SureSelect RNase Block Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

SureSelect Reagent Kit-PTN

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Type	Exposure	Value	Population	Effects
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	DNEL	Long term Inhalation	3.04 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	4.07 mg/m ³	Workers	Systemic
SureSelect Hyb 2 Edetic acid	DNEL	Long term Inhalation	0.6 mg/m ³	General population	Local
	DNEL	Short term Inhalation	1.2 mg/m ³	General population	Local
	DNEL	Long term Inhalation	1.5 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	1.5 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	3 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	3 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	25 mg/kg bw/day	General population	Systemic

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SureSelect Reagent Kit-PTN

SECTION 8: Exposure controls/personal protection

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	SureSelect Hyb 1	Liquid.
		SureSelect Hyb 2	Liquid.
		SureSelect Hyb 4	Liquid.
		SureSelect Binding Buffer	Liquid.
		SureSelect Wash Buffer 1	Liquid.
		SureSelect Wash Buffer 2	Liquid.
		SureSelect RNase Block	Liquid.
		SureSelect Hyb 3	Liquid.
		SureSelect Block 2	Liquid.
		SureSelect PTN Block 1	Liquid.
		SureSelect PTN Block 3	Liquid.
		SureSelect PTN PCR Primer Mix	Liquid.
Colour	:	SureSelect Hyb 1	Not available.
		SureSelect Hyb 2	Not available.
		SureSelect Hyb 4	Not available.
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Colourless.
		SureSelect PTN Block 1	Not available.
		SureSelect PTN Block 3	Not available.
		SureSelect PTN PCR Primer Mix	Not available.
Odour	:	SureSelect Hyb 1	Not available.
		SureSelect Hyb 2	Not available.
		SureSelect Hyb 4	Not available.
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Odourless.
		SureSelect PTN Block 1	Not available.
		SureSelect PTN Block 3	Not available.
		SureSelect PTN PCR Primer Mix	Not available.

SureSelect Reagent Kit-PTN

SECTION 9: Physical and chemical properties

Odour threshold	:	SureSelect Hyb 1	Not available.
		SureSelect Hyb 2	Not available.
		SureSelect Hyb 4	Not available.
		SureSelect Binding	Not available.
		Buffer	
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect PTN Block 1	Not available.
		SureSelect PTN Block 3	Not available.
		SureSelect PTN PCR	Not available.
		Primer Mix	
Melting point/freezing point	:	SureSelect Hyb 1	Not available.
		SureSelect Hyb 2	Not available.
		SureSelect Hyb 4	0°C
		SureSelect Binding	Not available.
		Buffer	
		SureSelect Wash Buffer 1	0°C
		SureSelect Wash Buffer 2	0°C
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	0°C
		SureSelect Block 2	0°C
		SureSelect PTN Block 1	0°C
		SureSelect PTN Block 3	0°C
		SureSelect PTN PCR	0°C
		Primer Mix	
Initial boiling point and boiling range	:	SureSelect Hyb 1	Not available.
		SureSelect Hyb 2	Not available.
		SureSelect Hyb 4	100°C
		SureSelect Binding	Not available.
		Buffer	
		SureSelect Wash Buffer 1	100°C
		SureSelect Wash Buffer 2	100°C
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	100°C
		SureSelect Block 2	100°C
		SureSelect PTN Block 1	100°C
		SureSelect PTN Block 3	100°C
		SureSelect PTN PCR	100°C
		Primer Mix	
Flammability	:	SureSelect Hyb 1	Not applicable.
		SureSelect Hyb 2	Not applicable.
		SureSelect Hyb 4	Not applicable.
		SureSelect Binding	Not applicable.
		Buffer	
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Hyb 3	Not applicable.
		SureSelect Block 2	Not applicable.
		SureSelect PTN Block 1	Not applicable.
		SureSelect PTN Block 3	Not applicable.
		SureSelect PTN PCR	Not applicable.
		Primer Mix	

SureSelect Reagent Kit-PTN

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Not available.
 Buffer
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.
 SureSelect RNase Block Not available.
 SureSelect Hyb 3 Not available.
 SureSelect Block 2 Not available.
 SureSelect PTN Block 1 Not available.
 SureSelect PTN Block 3 Not available.
 SureSelect PTN PCR Not available.
 Primer Mix

Flash point :

Ingredient name	Closed cup		Open cup	
	°C	Method	°C	Method
SureSelect RNase Block				
glycerol	-	-	177	-

Auto-ignition temperature :

Ingredient name	°C	Method
SureSelect Hyb 2		
edetic acid	>400	VDI 2263
SureSelect RNase Block		
glycerol	370	-

Decomposition temperature : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Not available.
 Buffer
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.
 SureSelect RNase Block Not available.
 SureSelect Hyb 3 Not available.
 SureSelect Block 2 Not available.
 SureSelect PTN Block 1 Not available.
 SureSelect PTN Block 3 Not available.
 SureSelect PTN PCR Not available.
 Primer Mix

pH : SureSelect Hyb 1 7.4
 SureSelect Hyb 2 8
 SureSelect Hyb 4 Not available.
 SureSelect Binding 7.5
 Buffer
 SureSelect Wash Buffer 1 7
 SureSelect Wash Buffer 2 7
 SureSelect RNase Block 7.6
 SureSelect Hyb 3 7
 SureSelect Block 2 Not available.
 SureSelect PTN Block 1 Not available.
 SureSelect PTN Block 3 Not available.
 SureSelect PTN PCR Not available.

SureSelect Reagent Kit-PTN

SECTION 9: Physical and chemical properties

Viscosity : Primer Mix
 SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Buffer Not available.
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.
 SureSelect RNase Block Not available.
 SureSelect Hyb 3 Not available.
 SureSelect Block 2 Not available.
 SureSelect PTN Block 1 Not available.
 SureSelect PTN Block 3 Not available.
 SureSelect PTN PCR Primer Mix Not available.

Solubility(ies) :

Media	Result
SureSelect Hyb 1 water	Soluble
SureSelect Hyb 2 water	Soluble
SureSelect Hyb 4 water	Soluble
SureSelect Binding Buffer water	Soluble
SureSelect Wash Buffer 1 water	Soluble
SureSelect Wash Buffer 2 water	Soluble
SureSelect RNase Block water	Soluble
SureSelect Hyb 3 water	Soluble
SureSelect Block 2 water	Soluble
SureSelect PTN Block 1 water	Soluble
SureSelect PTN Block 3 water	Soluble
SureSelect PTN PCR Primer Mix water	Soluble

Partition coefficient: n-octanol/water : SureSelect Hyb 1 Not applicable.
 SureSelect Hyb 2 Not applicable.
 SureSelect Hyb 4 Not applicable.
 SureSelect Binding Buffer Not applicable.
 SureSelect Wash Buffer 1 Not applicable.
 SureSelect Wash Buffer 2 Not applicable.
 SureSelect RNase Block Not applicable.
 SureSelect Hyb 3 Not applicable.
 SureSelect Block 2 Not applicable.
 SureSelect PTN Block 1 Not applicable.
 SureSelect PTN Block 3 Not applicable.
 SureSelect PTN PCR Primer Mix Not applicable.

Vapour pressure :

SureSelect Reagent Kit-PTN

SECTION 9: Physical and chemical properties

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
SureSelect Hyb 1						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Hyb 2						
water	17.5	2.3	-	92.258	12.3	-
edetic acid	0	0	-	-	-	-
SureSelect Hyb 4						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Binding Buffer						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
SureSelect RNase Block						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
SureSelect Hyb 3						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Block 2						
water	17.5	2.3	-	92.258	12.3	-
SureSelect PTN Block 1						
water	17.5	2.3	-	92.258	12.3	-
SureSelect PTN Block 3						

SureSelect Reagent Kit-PTN

SECTION 9: Physical and chemical properties

water	17.5	2.3	-	92.258	12.3	-
SureSelect PTN PCR Primer Mix						
water	17.5	2.3	-	92.258	12.3	-

Evaporation rate : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Buffer Not available.
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.
 SureSelect RNase Block Not available.
 SureSelect Hyb 3 Not available.
 SureSelect Block 2 Not available.
 SureSelect PTN Block 1 Not available.
 SureSelect PTN Block 3 Not available.
 SureSelect PTN PCR Primer Mix Not available.

Relative density : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Buffer Not available.
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.
 SureSelect RNase Block Not available.
 SureSelect Hyb 3 Not available.
 SureSelect Block 2 Not available.
 SureSelect PTN Block 1 Not available.
 SureSelect PTN Block 3 Not available.
 SureSelect PTN PCR Primer Mix Not available.

Vapour density : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Buffer Not available.
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.
 SureSelect RNase Block Not available.
 SureSelect Hyb 3 Not available.
 SureSelect Block 2 Not available.
 SureSelect PTN Block 1 Not available.
 SureSelect PTN Block 3 Not available.
 SureSelect PTN PCR Primer Mix Not available.

Explosive properties : SureSelect Hyb 1 Not available.
 SureSelect Hyb 2 Not available.
 SureSelect Hyb 4 Not available.
 SureSelect Binding Buffer Not available.
 SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.

SureSelect Reagent Kit-PTN

SECTION 9: Physical and chemical properties

	2	SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect PTN Block 1	Not available.
		SureSelect PTN Block 3	Not available.
		SureSelect PTN PCR	Not available.
		Primer Mix	
Oxidising properties	:	SureSelect Hyb 1	Not available.
		SureSelect Hyb 2	Not available.
		SureSelect Hyb 4	Not available.
		SureSelect Binding	Not available.
		Buffer	
		SureSelect Wash Buffer	Not available.
	1	SureSelect Wash Buffer	Not available.
	2	SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect PTN Block 1	Not available.
		SureSelect PTN Block 3	Not available.
		SureSelect PTN PCR	Not available.
		Primer Mix	

Particle characteristics

Median particle size	:	SureSelect Hyb 1	Not applicable.
		SureSelect Hyb 2	Not applicable.
		SureSelect Hyb 4	Not applicable.
		SureSelect Binding	Not applicable.
		Buffer	
		SureSelect Wash Buffer	Not applicable.
	1	SureSelect Wash Buffer	Not applicable.
	2	SureSelect RNase Block	Not applicable.
		SureSelect Hyb 3	Not applicable.
		SureSelect Block 2	Not applicable.
		SureSelect PTN Block 1	Not applicable.
		SureSelect PTN Block 3	Not applicable.
		SureSelect PTN PCR	Not applicable.
		Primer Mix	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	SureSelect Hyb 1	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect Hyb 2	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect Hyb 4	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect Binding	No specific test data related to reactivity available for this product or its ingredients.
		Buffer	
		SureSelect Wash Buffer	No specific test data related to reactivity available for this product or its ingredients.
	1	SureSelect Wash Buffer	No specific test data related to reactivity available for this product or its ingredients.
	2	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 Reagent Kit-PTN

SECTION 10: Stability and reactivity

SureSelect Block 2	No specific test data related to reactivity available for this product or its ingredients.
SureSelect PTN Block 1	No specific test data related to reactivity available for this product or its ingredients.
SureSelect PTN Block 3	No specific test data related to reactivity available for this product or its ingredients.
SureSelect PTN PCR Primer Mix	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: SureSelect Hyb 1	The product is stable.
SureSelect Hyb 2	The product is stable.
SureSelect Hyb 4	The product is stable.
SureSelect Binding Buffer	The product is stable.
SureSelect Wash Buffer 1	The product is stable.
SureSelect Wash Buffer 2	The product is stable.
SureSelect RNase Block	The product is stable.
SureSelect Hyb 3	The product is stable.
SureSelect Block 2	The product is stable.
SureSelect PTN Block 1	The product is stable.
SureSelect PTN Block 3	The product is stable.
SureSelect PTN PCR Primer Mix	The product is stable.

10.3 Possibility of hazardous reactions

: SureSelect Hyb 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 4	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
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 PTN Block 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect PTN Block 3	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect PTN PCR Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: SureSelect Hyb 1	No specific data.
SureSelect Hyb 2	No specific data.
SureSelect Hyb 4	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect Hyb 3	No specific data.

SureSelect Reagent Kit-PTN

SECTION 10: Stability and reactivity

SureSelect Block 2 No specific data.
 SureSelect PTN Block 1 No specific data.
 SureSelect PTN Block 3 No specific data.
 SureSelect PTN PCR No specific data.
 Primer Mix

10.5 Incompatible materials

: SureSelect Hyb 1 May react or be incompatible with oxidising materials.
 SureSelect Hyb 2 May react or be incompatible with oxidising materials.
 SureSelect Hyb 4 May react or be incompatible with oxidising materials.
 SureSelect Binding Buffer May react or be incompatible with oxidising materials.
 SureSelect Wash Buffer 1 May react or be incompatible with oxidising materials.
 SureSelect Wash Buffer 2 May react or be incompatible with oxidising materials.
 SureSelect RNase Block May react or be incompatible with oxidising materials.
 SureSelect Hyb 3 May react or be incompatible with oxidising materials.
 SureSelect Block 2 May react or be incompatible with oxidising materials.
 SureSelect PTN Block 1 May react or be incompatible with oxidising materials.
 SureSelect PTN Block 3 May react or be incompatible with oxidising materials.
 SureSelect PTN PCR May react or be incompatible with oxidising materials.
 Primer Mix

10.6 Hazardous decomposition products

: SureSelect Hyb 1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Hyb 2 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Hyb 4 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Binding Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Wash Buffer 1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Wash Buffer 2 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 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 PTN Block 1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect PTN Block 3 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect PTN PCR Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 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 Hyb 1 Sodium dihydrogenorthophosphate	LD50 Dermal	Rabbit	>7940 mg/kg	-
	LD50 Oral	Rat	8290 mg/kg	-
SureSelect Hyb 2 Edetic acid	LD50 Oral	Rat	4500 mg/kg	-

Acute toxicity estimates

SureSelect Reagent Kit-PTN

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	8290	N/A	N/A	N/A	N/A
SureSelect Hyb 2 SureSelect Hyb 2 Edetic acid	N/A 4500	N/A N/A	N/A N/A	N/A N/A	10.3 1.5

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	Eyes - Mild irritant	Rabbit	-	150 mg	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
SureSelect Hyb 2 Edetic acid	Category 2	inhalation	respiratory tract

Aspiration hazard

Not available.

Information on likely routes of exposure

- : SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
- SureSelect Hyb 4 Not available.
- SureSelect Binding Not available.
- Buffer
- SureSelect Wash Buffer 1 Not available.
- SureSelect Wash Buffer 2 Not available.
- SureSelect RNase Block Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
- SureSelect Hyb 3 Not available.
- SureSelect Block 2 Not available.
- SureSelect PTN Block 1 Not available.
- SureSelect PTN Block 3 Not available.
- SureSelect PTN PCR Not available.
- Primer Mix

Potential acute health effects

SureSelect Reagent Kit-PTN

SECTION 11: Toxicological information

Inhalation	:	SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.
Ingestion	:	SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.
Skin contact	:	SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.
Eye contact	:	SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	Causes serious eye irritation.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Primer Mix

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	No specific data.
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect PTN Block 1	No specific data.
		SureSelect PTN Block 3	No specific data.
		SureSelect PTN PCR	No specific data.
		Primer Mix	
Ingestion	:	SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	No specific data.
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect PTN Block 1	No specific data.
		SureSelect PTN Block 3	No specific data.
		SureSelect PTN PCR	No specific data.
		Primer Mix	
Skin contact	:	SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	No specific data.
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect PTN Block 1	No specific data.
		SureSelect PTN Block 3	No specific data.
		SureSelect PTN PCR	No specific data.
		Primer Mix	
Eye contact	:	SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect RNase Block	No specific data.

SECTION 11: Toxicological information

SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect PTN Block 1	No specific data.
SureSelect PTN Block 3	No specific data.
SureSelect PTN PCR	No specific data.
Primer Mix	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General : SureSelect Hyb 1 No known significant effects or critical hazards.
 SureSelect Hyb 2 May cause damage to organs through prolonged or repeated exposure.
 SureSelect Hyb 4 No known significant effects or critical hazards.
 SureSelect Binding Buffer No known significant effects or critical hazards.
 SureSelect Wash Buffer 1 No known significant effects or critical hazards.
 SureSelect Wash Buffer 2 No known significant effects or critical hazards.
 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 PTN Block 1 No known significant effects or critical hazards.
 SureSelect PTN Block 3 No known significant effects or critical hazards.
 SureSelect PTN PCR No known significant effects or critical hazards.
 Primer Mix

Carcinogenicity : SureSelect Hyb 1 No known significant effects or critical hazards.
 SureSelect Hyb 2 No known significant effects or critical hazards.
 SureSelect Hyb 4 No known significant effects or critical hazards.
 SureSelect Binding Buffer No known significant effects or critical hazards.
 SureSelect Wash Buffer 1 No known significant effects or critical hazards.
 SureSelect Wash Buffer 2 No known significant effects or critical hazards.
 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 PTN Block 1 No known significant effects or critical hazards.
 SureSelect PTN Block 3 No known significant effects or critical hazards.
 SureSelect PTN PCR No known significant effects or critical hazards.
 Primer Mix

Mutagenicity : SureSelect Hyb 1 No known significant effects or critical hazards.
 SureSelect Hyb 2 No known significant effects or critical hazards.
 SureSelect Hyb 4 No known significant effects or critical hazards.
 SureSelect Binding Buffer No known significant effects or critical hazards.
 SureSelect Wash Buffer 1 No known significant effects or critical hazards.
 SureSelect Wash Buffer 2 No known significant effects or critical hazards.

SureSelect Reagent Kit-PTN

SECTION 11: Toxicological information

	2	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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.
Reproductive toxicity	:	SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		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 PTN Block 1	No known significant effects or critical hazards.
		SureSelect PTN Block 3	No known significant effects or critical hazards.
		SureSelect PTN PCR Primer Mix	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

SureSelect RNase Block Adverse symptoms may include the following: May cause skin sensitisation.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	Acute LC50 720 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
SureSelect Hyb 2 Edetic acid	Acute EC50 >60 mg/l Fresh water Acute EC50 113000 µg/l Fresh water Acute LC50 129000 µg/l Fresh water	Algae - <i>Raphidocelis subcapitata</i> Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Ictalurus punctatus</i> - Fingerling	72 hours 48 hours 96 hours

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SureSelect Hyb 2 Edetic acid	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect Hyb 2 Edetic acid	-	1.8	Low

SureSelect Reagent Kit-PTN

SECTION 12: Ecological information

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 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.

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 spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

SureSelect Reagent Kit-PTN

SECTION 14: Transport information

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

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

Product / Ingredient name	Identifiers	Designation [Usage]
SureSelect Hyb 2 SureSelect Hyb 2		3

Label	: SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	Not applicable.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect PTN Block 1	Not applicable.
	SureSelect PTN Block 3	Not applicable.
	SureSelect PTN PCR Primer	Not applicable.
	Mix	

[Other EU regulations](#)

[Ozone depleting substances \(1005/2009/EU\)](#)

Not listed.

[Prior Informed Consent \(PIC\) \(649/2012/EU\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

[Seveso Directive](#)

This product is not controlled under the Seveso Directive.

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[Montreal Protocol](#)

Not listed.

[Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

[Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

SureSelect Reagent Kit-PTN

SECTION 15: Regulatory information

Not listed.

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

Not listed.

[Inventory list](#)

- Australia** : Not determined.
- Canada** : Not determined.
- China** : All components are listed or exempted.
- Eurasian Economic Union** : **Russian Federation inventory**: Not determined.
- Japan** : **Japan inventory (CSCL)**: Not determined.
Japan inventory (ISHL): Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : All components are listed or exempted.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : All components are active or exempted.
- Viet Nam** : Not determined.

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]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
SureSelect Hyb 2 Eye Irrit. 2, H319 STOT RE 2, H373	Calculation method Calculation method

[Full text of abbreviated H statements](#)

SureSelect Hyb 1 H319	Causes serious eye irritation.
SureSelect Hyb 2 H319 H332 H373	Causes serious eye irritation. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.

[Full text of classifications \[CLP/GHS\]](#)

SureSelect Reagent Kit-PTN

SECTION 16: Other information

SureSelect Hyb 1 Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SureSelect Hyb 2 Acute Tox. 4 Eye Irrit. 2 STOT RE 2	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Date of issue/ Date of revision : 21/03/2024

Date of previous issue : No previous validation

Version : 1

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