SAFETY DATA SHEET



Beta SureSelect Max Target Enrichment Kit Fast Hyb Module, Box 2, 16 Hybs, Part Number 5280-0062

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

1.1 Product identifier

Product name : Beta SureSelect Max Target Enrichment Kit Fast Hyb Module, Box 2, 16 Hybs, Part

Number 5280-0062

Part no. (chemical kit) : 5280-0062

Part no. : SureSelect Max Fast 52RD-0063

Hyb Buffer, 16 Hybs

SureSelect RNase Block 5190-4383 Blocker Mix, ILM 52RD-0066 SureSelect Post- 5190-9730

Capture Primer Mix

Amplification Master Mix 7K0014-384

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

Identified uses : Analytical reagent.

For research use only.

SureSelect Max Fast Hyb Buffer, 16 Hybs 0.108 ml SureSelect RNase Block 0.016 ml

Blocker Mix, ILM 0.08 ml (16 reactions)
SureSelect Post- Capture Primer Mix 0.016 ml (16 reactions)
Amplification Master Mix 0.45 ml (16 reactions)

Uses advised against: Not for use in diagnostic procedures.

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

: CHEMTREC®: +(44)-870-8200418

operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : SureSelect Max Fast Mixture

Hvb Buffer, 16 Hvbs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostMixture
Mixture

Capture Primer Mix

Amplification Master Mix Mixture

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

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SECTION 2: Hazards identification

Amplification Master

Mix

H302 ACUTE TOXICITY (oral) Category 4 H315 SKIN CORROSION/IRRITATION Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE Category 2 H371 H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

SureSelect Max Fast Hyb Buffer,

16 Hybs

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.

Blocker Mix, ILM

The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

SureSelect Post- Capture Primer

Mix

The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Amplification Master Mix The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

Ingredients of unknown

toxicity

: SureSelect Max Fast Hyb

Buffer, 16 Hybs

SureSelect RNase Block

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

Amplification Master Mix Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

Ingredients of unknown

ecotoxicity

: SureSelect Max Fast Hyb

Buffer, 16 Hybs

Contains 20.3% of components with unknown hazards to

the aquatic environment

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 : Amplification Master Mix





: SureSelect Max Fast Signal word No signal word.

Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

No signal word. No signal word. No signal word.

Capture Primer Mix

Amplification Master Mix

Warning

Hazard statements

: SureSelect Max Fast

No known significant effects or critical hazards.

Hyb Buffer, 16 Hybs SureSelect RNase Block

Blocker Mix, ILM SureSelect Post-Capture Primer Mix Amplification Master Mix No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H371 - May cause damage to organs.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : SureSelect Max Fast

Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM

Not applicable.

Not applicable. Not applicable. SureSelect Post-Not applicable.

Capture Primer Mix **Amplification Master Mix**

P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

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SECTION 2: Hazards identification

Response

: SureSelect Max Fast

Not applicable.

Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix

Not applicable. Not applicable. Not applicable.

Amplification Master Mix

P308 + P311 - IF exposed or concerned: Call a POISON

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P270 - Do not eat, drink or smoke when using this product.

CENTER or doctor.

Storage

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix Amplification Master Mix

Not applicable.

Not applicable. Not applicable. Not applicable.

Disposal

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block

Blocker Mix, ILM SureSelect Post-Capture Primer Mix **Amplification Master Mix** Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Hazardous ingredients Supplemental label elements

: Amplification Master Mix

SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix Amplification Master Mix

tetramethylammonium chloride

Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture. placing on the market and use of certain dangerous substances. mixtures and articles

SureSelect Max Fast Hvb Buffer, 16 Hvbs SureSelect RNase Block Blocker Mix. ILM SureSelect Post-Capture Primer Mix **Amplification Master Mix**

Not applicable. Not applicable.

Not applicable.

Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Special packaging requirements

Tactile warning of danger

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Not applicable. Blocker Mix. ILM SureSelect Post-Capture Primer Mix

Not applicable.

Not applicable. Not applicable.

Amplification Master 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 Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block

Amplification Master Mix

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

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB. Blocker Mix, ILM

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

SureSelect Post-This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Capture Primer Mix

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

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SECTION 2: Hazards identification

Other hazards which do

not result in classification

: SureSelect Max Fast

ist None known.

Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

None known. None known. None known.

Capture Primer Mix

Amplification Master Mix None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : SureSelect Max Fast Hyb Buffer, Mixture

16 Hybs

SureSelect RNase Block Mixture
Blocker Mix, ILM Mixture
SureSelect Post- Capture Primer Mixture

Mix

Amplification Master Mix Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
SureSelect Max Fast Hyb Buffer, 16 Hybs					
ammonium chloride	EC: 235-186-4 CAS: 12125-02-9 Index: 017-014-00-8	≤3	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE [Oral] = 1650 mg/kg	[1] [2]
SureSelect RNase Block					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
Amplification Master Mix					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥25 - ≤50	Not classified.	-	[2]
trometamol	EC: 201-064-4 CAS: 77-86-1	<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
tetramethylammonium chloride	EC: 200-880-8 CAS: 75-57-0	<10	Acute Tox. 2, H300 Acute Tox. 3, H311 Skin Irrit. 2, H315 STOT SE 1, H370 (central nervous system (CNS)) (oral) Aquatic Chronic 2, H411 See Section 16 for	ATE [Oral] = 50 mg/kg ATE [Dermal] = 300 mg/kg	[1]
			the full text of the H statements declared above.		

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

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SECTION 3: Composition/information on ingredients

SureSelect Max Fast Hyb Buffer, 16 Hybs

[2] Substance with a workplace exposure limit [1] Substance with a workplace exposure limit

SureSelect RNase Block Amplification Master Mix

[1] Substance classified with a health or environmental hazard

[1] Substance classified with a health or environmental hazard

[2] 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

Inhalation

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block

Blocker Mix, ILM

SureSelect Post-Capture Primer Mix

Amplification Master Mix

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block

Blocker Mix, ILM

SureSelect Post-Capture Primer Mix

Amplification Master 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.

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.

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. 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. 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. If necessary, call a poison center or

physician.

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.

Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms occur.

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 necessary, call a poison center or physician. 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. 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 Max Fast Hyb Buffer, 16 Hybs

syn

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.

Blocker Mix, ILM Flush contaminated skin with plenty of water. Remove

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SECTION 4: First aid measures

contaminated clothing and shoes. Get medical attention if

symptoms occur.

SureSelect Post-Flush contaminated skin with plenty of water. Remove Capture Primer Mix

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Amplification Master Mix Flush contaminated skin with plenty of water. Remove

> contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

Ingestion : SureSelect Max Fast

Hyb Buffer, 16 Hybs

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.

Blocker Mix, ILM 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 Post-Capture 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.

Amplification Master Mix 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. If necessary, call a poison center or physician. 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.

Protection of first-aiders

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block

No action shall be taken involving any personal risk or

without suitable training.

No action shall be taken involving any personal risk or

without suitable training.

Blocker Mix, ILM No action shall be taken involving any personal risk or

without suitable training.

SureSelect Post-Capture Primer Mix No action shall be taken involving any personal risk or

without suitable training.

Amplification Master Mix 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.

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

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SECTION 4: First aid measures

SureSelect Max Fast No known significant effects or critical hazards. **Eye contact** Hyb Buffer, 16 Hybs SureSelect RNase Block No known significant effects or critical hazards. Blocker Mix, ILM No known significant effects or critical hazards. SureSelect Post-No known significant effects or critical hazards. Capture Primer Mix **Amplification Master Mix** No known significant effects or critical hazards. **Inhalation** : SureSelect Max Fast No known significant effects or critical hazards. Hyb Buffer, 16 Hybs SureSelect RNase Block No known significant effects or critical hazards. Blocker Mix, ILM No known significant effects or critical hazards. SureSelect Post-No known significant effects or critical hazards. Capture Primer Mix **Amplification Master Mix** May cause damage to organs following a single exposure if inhaled. **Skin contact** : SureSelect Max Fast No known significant effects or critical hazards. Hyb Buffer, 16 Hybs SureSelect RNase Block No known significant effects or critical hazards. Blocker Mix. ILM No known significant effects or critical hazards. SureSelect Post-No known significant effects or critical hazards. Capture Primer Mix May cause damage to organs following a single exposure in **Amplification Master Mix** contact with skin. Causes skin irritation. : SureSelect Max Fast Ingestion No known significant effects or critical hazards. Hyb Buffer, 16 Hybs SureSelect RNase Block No known significant effects or critical hazards. Blocker Mix, ILM No known significant effects or critical hazards. SureSelect Post-No known significant effects or critical hazards. Capture Primer Mix **Amplification Master Mix** Harmful if swallowed. May cause damage to organs following a single exposure if swallowed. **Over-exposure signs/symptoms** : SureSelect Max Fast **Eye contact** No specific data. Hyb Buffer, 16 Hybs SureSelect RNase Block No specific data. Blocker Mix, ILM No specific data. SureSelect Post-No specific data. Capture Primer Mix **Amplification Master Mix** Adverse symptoms may include the following: pain or irritation watering redness Inhalation : SureSelect Max Fast No specific data. Hyb Buffer, 16 Hybs SureSelect RNase Block No specific data. Blocker Mix, ILM No specific data. SureSelect Post-No specific data. Capture Primer Mix **Amplification Master Mix** No specific data. Skin contact SureSelect Max Fast No specific data. Hyb Buffer, 16 Hybs SureSelect RNase Block No specific data. Blocker Mix. ILM No specific data. SureSelect Post-No specific data. Capture Primer Mix **Amplification Master Mix** Adverse symptoms may include the following: irritation redness

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SECTION 4: First aid measures

Ingestion

SureSelect Max Fast

No specific data.

Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

No specific data. No specific data. No specific data.

Capture Primer Mix

Amplification Master Mix No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: SureSelect Max Fast Hyb Buffer, 16 Hybs

Blocker Mix, ILM

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

SureSelect RNase Block

to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist

SureSelect Post-Capture Primer Mix

Amplification Master Mix

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire,

immediately if large quantities have been ingested or inhaled.

symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

: SureSelect Max Fast Hyb Buffer, 16 Hybs

No specific treatment.

SureSelect RNase Block Blocker Mix. ILM SureSelect Post-Capture Primer Mix

No specific treatment. No specific treatment. No specific treatment.

Amplification Master Mix

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Use an extinguishing agent suitable for the surrounding fire.

Blocker Mix, ILM SureSelect Post-Capture Primer Mix Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Amplification Master Mix Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

SureSelect Max Fast Hyb Buffer, 16 Hybs

None known.

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix

None known. None known. None known.

Amplification Master Mix

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the

Blocker Mix, ILM

container may burst. In a fire or if heated, a pressure increase will occur and the

SureSelect Post-Capture Primer Mix **Amplification Master Mix** In a fire or if heated, a pressure increase will occur and the

container may burst.

container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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SECTION 5: Firefighting measures

Hazardous combustion products

SureSelect Max Fast Hyb Buffer, 16 Hybs

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

SureSelect RNase Block

Decomposition products may include the following materials:

carbon dioxide carbon monoxide No specific data.

Blocker Mix, ILM SureSelect Post-

No specific data.

Capture Primer Mix **Amplification Master Mix**

Decomposition products may include the following materials:

Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

5.3 Advice for firefighters

Special precautions for fire-fighters

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block

Blocker Mix, ILM

SureSelect Post-Capture Primer Mix

Amplification Master Mix

taken involving any personal risk or without suitable training. 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. 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. 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. 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 firefighters

: SureSelect Max Fast Hyb Buffer, 16 Hybs

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.

Blocker Mix, ILM

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 Post-Capture 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.

Amplification Master 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

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SECTION 5: Firefighting measures

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	7
personnel	

: SureSelect Max Fast Hyb Buffer, 16 Hybs

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.

Blocker Mix, ILM

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 Post-Capture 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.

Amplification Master 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put

on appropriate personal protective equipment.

For emergency responders

: SureSelect Max Fast Hyb Buffer, 16 Hybs

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".

Blocker Mix, ILM

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 Post-Capture 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".

Amplification Master 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 Max Fast Hyb Buffer, 16 Hybs

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).

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SECTION 6: Accidental release measures

Blocker Mix, ILM 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 Post-Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant Capture Primer Mix

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Amplification Master 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). Water polluting material. May be harmful to the environment if released in large

quantities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: SureSelect Max Fast Hyb Buffer, 16 Hybs

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.

Stop leak if without risk. Move containers from spill area. Blocker Mix, ILM

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 Post-Capture 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.

Amplification Master 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 Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block

Blocker Mix, ILM

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

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

Put on appropriate personal protective equipment (see

Section 8). SureSelect Post-

Put on appropriate personal protective equipment (see

Capture Primer Mix Section 8). Amplification Master Mix

Put on appropriate personal protective equipment (see

Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container

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SECTION 7: Handling and storage

Advice on general occupational hygiene

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block

kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

or an approved alternative made from a compatible material,

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. Eating, drinking and smoking should be prohibited in areas

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

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.

Blocker Mix, ILM

SureSelect Post-Capture Primer Mix

Amplification Master Mix

7.2 Conditions for safe storage, including any incompatibilities

Storage

: SureSelect Max Fast Hyb Buffer, 16 Hybs 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 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.

Blocker Mix, ILM 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

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SECTION 7: Handling and storage

bef

appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

before handling or use.

SureSelect Post-Capture 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

contamination. See Section 10 for incompatib

before handling or use.

Amplification Master 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. Store locked up. 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)

Recommendations

: SureSelect Max Fast

Hyb Buffer, 16 Hybs SureSelect RNase Block

Blocker Mix, ILM SureSelect Post-Capture Primer Mix

Amplification Master Mix

SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

Capture Primer Mix

Amplification Master Mix

Industrial applications, Professional applications.

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial applications, Professional applications.

Not available.

Not available. Not available. Not available.

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Industrial sector specific

solutions

Product/ingredient name	Exposure limit values
SureSelect Max Fast Hyb Buffer, 16 Hybs ammonium chloride	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: fume OELV: 20 mg/m³ 15 minutes. Form: fume
SureSelect RNase Block Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: mist
Amplification Master Mix Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: mist

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SECTION 8: Exposure controls/personal protection

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

Product/ingredient name	Type	Exposure	Value	Population	Effects
SureSelect Max Fast Hyb Buffer, 16 Hybs					
ammonium chloride	DNEL	Long term Inhalation	9.4 mg/m³	General population	Systemic
	DNEL	Long term Oral	11.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	33.5 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	55.2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	55.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	128.9 mg/ kg bw/day	Workers	Systemic
Amplification Master Mix					
Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	29 mg/m³	General population	Systemic
	DNEL	Long term Dermal	83.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	117.5 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/ kg bw/day	Workers	Systemic
tetramethylammonium chloride	DNEL	Long term Oral	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m ³	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

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SECTION 8: Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

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

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.

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 Max Fast Liquid.

Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostLiquid.
Liquid.

Capture Primer Mix

Amplification Master Mix Liquid.

Colour : SureSelect Max Fast Not available.

Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNot available.
Not available.

Capture Primer Mix

Amplification Master Mix Not available.

SureSelect Max Fast Not available.

Odour : SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNot available.
Not available.
Not available.

Capture Primer Mix

Amplification Master Mix Not available.

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SECTION 9: Physical and chemical properties

Odour threshold : SureSelect Max Fast Not available. Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect Post
Not available.
Not available.

Capture Primer Mix

Hyb Buffer, 16 Hybs

Amplification Master Mix Not available.

SureSelect Max Fast Not available.

SureSelect RNase Block Not available. Blocker Mix, ILM 0°C

SureSelect Post- 0°C
Capture Primer Mix

Capture Primer Mix
Amplification Master Mix

Amplification Master Mix Not available.

SureSelect Max Fast Not available.
Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNot available.
100°C
100°C

Capture Primer Mix
Amplification Master Mix

Amplification Master Mix Not available.
: SureSelect Max Fast Not applicable.

Hyb Buffer, 16 Hybs
SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNot applicable.
Not applicable.

Capture Primer Mix

Amplification Master Mix Not applicable. SureSelect Max Fast Not available.

Upper/lower flammability : SureSelect Max Fas or explosive limits : Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostCapture Primer Mix
Not available.
Not available.
Not available.

Amplification Master Mix Not available.

Flash point

Melting point/freezing

Initial boiling point and

boiling range

Flammability

point

	Clo	sed cup	Open cup	
Ingredient name	°C	Method	°C	Method
SureSelect RNase Block				
glycerol	-	-	177	-
Amplification Master Mix				
glycerol	_	-	177	-

Auto-ignition temperature

giyceioi	- -	177 -
Ingredient name	°C	Method
SureSelect Max Fast Hyb Buffer, 16 H	ybs	
ammonium chloride	>400	EU A.16
SureSelect RNase Block		
glycerol	370	-
Amplification Master Mix		
glycerol	370	-

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SECTION 9: Physical and chemical properties

Decomposition temperature

pH

SureSelect Max Fast Not available.

Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNot available.
Not available.

Capture Primer Mix

Amplification Master Mix Not available.

7.5

: SureSelect Max Fast 7.5

Hyb Buffer, 16 Hybs SureSelect RNase Block 7.6 Blocker Mix. ILM 7.5

SureSelect Post-Capture Primer Mix

Amplification Master Mix 8.5

Viscosity : SureSelect Max Fast Not available.

Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostConture Primer Mix
Not available.
Not available.

Capture Primer Mix

Amplification Master Mix Not available.

Solubility(ies)

Media	Result
SureSelect Max Fast Hyb Buffer, 16 Hybs	
water	Soluble
SureSelect RNase Block	
water	Soluble
Blocker Mix, ILM	
water	Soluble
SureSelect Post- Capture Primer Mix	
water	Soluble
Amplification Master Mix	
water	Soluble

Partition coefficient: noctanol/water : SureSelect Max Fast

Not applicable.

Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNot applicable.
Not applicable.

Capture Primer Mix

Amplification Master Mix Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
SureSelect Max Fast Hyb Buffer, 16 Hybs						
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	-
Blocker Mix, ILM	47.5	2.2		00.050	40.0	
water	17.5	2.3	-	92.258	12.3	-

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SureSelect Post- Capture Primer Mix						
water	17.5	2.3	-	92.258	12.3	-
Amplification Master Mix						
water	17.5	2.3	-	92.258	12.3	-
trometamol	<0.00075006	<0.0001	-	-	-	-

Evaporation rate

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNot available.
Not available.
Not available.

Capture Primer Mix

Amplification Master Mix

Not available.
Not available.

Not available.

Relative density : SureSelect Max Fast
Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix Not available. Not available. Not available.

Not available.

Not available.

Amplification Master Mix

Vapour density : SureSelect Max Fast

SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block

Not available.

Blocker Mix, ILM SureSelect Post-Capture Primer Mix Amplification Master Mix

Not available. Not available.

Explosive properties : SureSelect Max Fast

Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix Amplification Master Mix Not available. Not available.

Not available. Not available. Not available.

Oxidising properties

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Bloc Blocker Mix. ILM Not available.

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix Amplification Master Mix Not available. Not available. Not available.

Particle characteristics

Median particle size

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Not applicable.

Not available.

Blocker Mix, ILM SureSelect Post-Capture Primer Mix

Capture Primer Mix Amplification Master Mix Not applicable. Not applicable. Not applicable.

Not applicable.

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this

product or its ingredients.

Blocker Mix, ILM No specific test data relati

No specific test data related to reactivity available for this

product or its ingredients.

SureSelect Post-Capture Primer Mix Amplification Master Mix No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix The product is stable.

The product is stable. The product is stable. The product is stable.

Amplification Master Mix The product is stable.

10.3 Possibility of hazardous reactions

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous

Blocker Mix, ILM

reactions will not occur.
Under normal conditions of storage and use, hazardous

reactions will not occur.

SureSelect Post-Capture Primer Mix Amplification Master Mix Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Bloc

SureSelect RNase Block No s
Blocker Mix, ILM No s
SureSelect Post- No s
Capture Primer Mix

No specific data.

No specific data. No specific data. No specific data.

Amplification Master Mix No specific data.

10.5 Incompatible materials

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix Amplification Master Mix

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

Amplification Master Mix May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block

Blocker Mix, ILM

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous

Under normal conditions of storage and use, hazardou decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SureSelect Post-Capture Primer Mix Amplification Master Mix

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SureSelect Max Fast Hyb Buffer, 16 Hybs				
ammonium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	1650 mg/kg	-
Amplification Master Mix				
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
tetramethylammonium	LD50 Dermal	Rabbit - Male,	200 to 500 mg/kg	g -
chloride		Female		
	LD50 Oral	Rat	50 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect Max Fast Hyb Buffer, 16 Hybs ammonium chloride	61807.6 1650	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Amplification Master Mix Amplification Master Mix tetramethylammonium chloride	1279.5 50	7677.0 300	N/A N/A		N/A N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Max Fast Hyb Buffer, 16 Hybs ammonium chloride	Eyes - Severe irritant	Rabbit	-	100 mg	-
Amplification Master Mix Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	- -	25 % 500 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)

Product/ingredient name	Category	Route of exposure	Target organs
Amplification Master Mix tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)

Specific target organ toxicity (repeated exposure)

Not available.

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SECTION 11: Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix. ILM

SureSelect Post-Capture Primer Mix **Amplification Master Mix** Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Not available. Not available

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Inhalation

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix. ILM

SureSelect Post-Capture Primer Mix

Amplification Master Mix

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

May cause damage to organs following a single exposure if

inhaled.

Ingestion

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM

SureSelect Post-Capture Primer Mix **Amplification Master Mix** No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Harmful if swallowed. May cause damage to organs

following a single exposure if swallowed.

Skin contact

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix. ILM SureSelect Post-Capture Primer Mix **Amplification Master Mix**

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

May cause damage to organs following a single exposure in contact with skin. Causes skin irritation.

Eye contact

: SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Amplification Master Mix No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: SureSelect Max Fast Hyb Buffer, 16 Hybs

No specific data.

SureSelect RNase Block No specific data. Blocker Mix. ILM No specific data. SureSelect Post-No specific data.

Capture Primer Mix Amplification Master Mix

: SureSelect Max Fast

No specific data. No specific data.

Ingestion Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix

Amplification Master Mix

No specific data. No specific data. No specific data.

No specific data.

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SECTION 11: Toxicological information

Skin contact SureSelect Max Fast

Hyb Buffer, 16 Hybs

SureSelect RNase Block No specific data. Blocker Mix, ILM No specific data. SureSelect Post-No specific data.

Capture Primer Mix

Amplification Master Mix Adverse symptoms may include the following:

No specific data.

irritation redness

Eye contact SureSelect Max Fast No specific data.

Hyb Buffer, 16 Hybs

SureSelect RNase Block No specific data. Blocker Mix, ILM No specific data. SureSelect Post-No specific data.

Capture Primer Mix

Amplification Master Mix Adverse symptoms may include the following:

> pain or irritation watering

redness

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.

Not available.

Potential chronic health effects

Conclusion/Summary

General

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block

Blocker Mix. ILM SureSelect Post-Capture Primer Mix Amplification Master Mix

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Carcinogenicity SureSelect Max Fast

Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix **Amplification Master Mix**

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity : SureSelect Max Fast

Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect Post-Capture Primer Mix **Amplification Master Mix**

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

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Beta SureSelect Max Target Enrichment Kit Fast Hyb Module, Box 2, 16 Hybs, Part Number 5280-0062

SECTION 11: Toxicological information

Reproductive toxicity

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Blocker Mix, ILM SureSelect PostNo known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Capture Primer Mix

Amplification Master 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 Max Fast Hyb Buffer, 16 Hybs			
ammonium chloride	Acute EC50 0.07 mg/l Marine water	Algae - Hormosira banksii - Gamete	72 hours
	Acute LC50 20 μg/l Fresh water	Crustaceans - <i>Macrobrachium</i> rosenbergii - Post-larvae	48 hours
	Acute LC50 390 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Young	48 hours
	Acute LC50 80 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic EC10 0.03 mg/l Fresh water	Daphnia - <i>Daphnia obtusa</i>	21 days
	Chronic NOEC 0.6 mg/l Marine water	Algae - Entomoneis punctulata - Exponential growth phase	72 hours
	Chronic NOEC 330 µg/l Fresh water	Crustaceans - Crangonyx sp Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 0.006 mg/l Fresh water	Fish - Ictalurus punctatus - Fry	30 days
Amplification Master Mix			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Amplification Master Mix Trometamol	OECD 301F Ready Biodegradability - Manometric	97.1 % - Readily - 28 days	30 mg/l	-
	Respirometry Test			

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SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SureSelect Max Fast Hyb Buffer, 16 Hybs ammonium chloride	-	-	Readily
Amplification Master Mix Trometamol tetramethylammonium chloride	-	-	Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
SureSelect Max Fast Hyb Buffer, 16 Hybs ammonium chloride	-3.2	-	Low
Amplification Master Mix Trometamol tetramethylammonium chloride	-2.31 <-1.6		Low Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: 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

Packaging

Methods of disposal

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

: 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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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

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 Max Fast Hyb Buffer, 16 Hybs ammonium chloride		65
Amplification Master Mix Amplification Master Mix		3

Label : SureSelect Max Fast Hyb

Buffer, 16 Hybs

Not applicable.

SureSelect RNase Block Blocker Mix, ILM

Not applicable. Not applicable. Not applicable.

SureSelect Post- Capture

Primer Mix

Amplification Master Mix Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

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SECTION 15: Regulatory information

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)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Eurasian Economic

Union Japan : Russian Federation inventory: Not determined.

: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.

15.2 Chemical safety

assessment

Viet Nam

: This product contains substances for which Chemical Safety Assessments might still

be required.

: Not determined.

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]

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SECTION 16: Other information

Classification	Justification
Amplification Master Mix	
Acute Tox. 4, H302	Calculation method
Skin Irrit. 2, H315	Calculation method
STOT SE 2, H371	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

SureSelect Max Fast Hyb Buffer, 16 Hybs H302 H319	Harmful if swallowed. Causes serious eye irritation.	
Amplification Master Mix		
H300	Fatal if swallowed.	
H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H370	Causes damage to organs.	
H371	May cause damage to organs.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

Full text of classifications [CLP/GHS]

SureSelect	Max	Fast	Hvb	Butter.	16 Hvbs

Acute Tox. 4 ACUTE TOXICITY - Category 4

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Amplification Master Mix

Acute Tox. 2
Acute Tox. 3
Acute Tox. 3
Acute Tox. 4
Acute Tox. 4
Aquatic Chronic 2
Aquatic Chronic 3
Aquatic Chronic 3
Acute Tox. 4
Aquatic Chronic 3
Acute Tox. 4
Acute Tox. 4
Acute Tox. 4
Acute Tox. 6
Acute Tox.

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

STOT SE 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

STOT SE I SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 1

STOT SE 2 SPEČIFÍC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 2

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revision

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Version : 1

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