# **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 LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone

number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : SureSelect Max Fast Mixture

Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostMixture

Capture Primer Mix

Amplification Master Mix Mixture

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

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 1/27

### 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 UK CLP

Regulation SI 2019/720 as amended.

The product is not classified as hazardous according to UK CLP SureSelect RNase Block

Regulation SI 2019/720 as amended.

The product is not classified as hazardous according to UK CLP Blocker Mix, ILM

Regulation SI 2019/720 as amended.

The product is not classified as hazardous according to UK CLP SureSelect Post- Capture Primer Mix

Regulation SI 2019/720 as amended.

The product is classified as hazardous according to UK CLP **Amplification Master Mix** 

Regulation SI 2019/720 as amended.

Ingredients of unknown

toxicity

: SureSelect Max Fast Hyb

Buffer, 16 Hvbs

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

Hyb Buffer, 16 Hybs

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

No signal word.

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

Amplification Master Mix Warning

**Hazard statements** SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

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.

Capture Primer Mix

Amplification Master Mix 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

Not applicable.

SureSelect RNase Block Not applicable. Not applicable. Blocker Mix, ILM Not applicable. SureSelect Post-

Capture Primer Mix

P280 - Wear protective gloves. Amplification Master Mix

P273 - Avoid release to the environment.

Date of issue/Date of revision Date of previous issue : 12/01/2024 : No previous validation Version: 1 2/27

### **SECTION 2: Hazards identification**

P260 - Do not breathe vapour.

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

Response

: SureSelect Max Fast

Not applicable.

Hyb Buffer, 16 Hybs

SureSelect RNase Block Not applicable. Blocker Mix, ILM Not applicable. SureSelect Post-Not applicable.

Capture Primer Mix

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

CENTER or doctor.

Not applicable.

**Storage** 

**Disposal** 

SureSelect Max Fast

Hyb Buffer, 16 Hybs

SureSelect RNase Block Not applicable. Blocker Mix, ILM Not applicable. SureSelect Post-Not applicable.

Capture Primer Mix

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

Hyb Buffer, 16 Hybs

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

Not applicable. Not applicable.

Capture Primer Mix Amplification Master Mix

P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

**Hazardous ingredients** Supplemental label

**Annex XVII - Restrictions** 

on the manufacture,

and use of certain

placing on the market

dangerous substances,

mixtures and articles

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

SureSelect Max Fast

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

SureSelect Post-Capture Primer Mix

Amplification Master Mix Not applicable.

Safety data sheet available on request.

tetramethylammonium chloride

Safety data sheet available on request.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable. Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

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

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

Not applicable. Not applicable. Not applicable.

Amplification Master Mix

Not applicable.

**Tactile warning of** danger

SureSelect Max Fast Hyb Buffer, 16 Hybs

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

Not applicable.

Not applicable. Not applicable. Not applicable.

Amplification Master Mix Not applicable.

#### 2.3 Other hazards

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 3/27

### **SECTION 2: Hazards identification**

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 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 mixtur
Capture Primer Mix assessed to
Amplification Master Mix This mixtur

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

x 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 Max Fast Hyb Buffer, 16 Hybs None known.

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostCapture Primer Mix
None known.
None known.

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 Blocker Mix. ILM Mixture Mixture Mixture

SureSelect Post- Capture Primer Mix

**Amplification Master Mix** 

Mixture

Product/ingredient name	Identifiers	%	Classification	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	[1] [2]
SureSelect RNase Block				
Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
Amplification Master Mix				
Glycerol	UK (GB) REACH #: Annex V 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	[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

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 4/27

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

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

# **SECTION 3: Composition/information on ingredients**

SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block

**Amplification Master Mix** 

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [1] Substance with a workplace exposure limit
- [1] Substance classified with a health or environmental hazard

Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove

[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** 

SureSelect RNase Block

Blocker Mix, ILM

SureSelect Post-Capture Primer Mix

**Amplification Master Mix** 

Inhalation

**Skin contact** 

: 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

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

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.

any contact lenses. Get medical attention if irritation occurs.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

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-tomouth 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

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 contaminated clothing and shoes. Get medical attention if

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 5/27

### **SECTION 4: First aid measures**

symptoms occur.

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

Over-exposure signs/symptoms

**Eye contact** 

: SureSelect Max Fast No specific data. Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNo specific data.
No specific data.

Capture Primer Mix

Amplification Master Mix Adverse symptoms may include the following:

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 6/27

### **SECTION 4: First aid measures**

pain or irritation watering redness

No specific data.

Inhalation : 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 No specific data.

: SureSelect Max Fast

No specific data.

Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM

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

SureSelect Post-Capture Primer Mix

Amplification Master Mix Adverse symptoms may include the following:

No specific data.

irritation redness

Ingestion : 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 No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

Skin contact

: SureSelect Max Fast Hyb Buffer, 16 Hybs

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SureSelect RNase Block

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Blocker Mix, ILM

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

SureSelect Post-Capture Primer Mix Amplification Master Mix

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : SureSelect Max Fast

Hyb Buffer, 16 Hybs

No specific treatment.

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

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

Capture Primer Mix

Amplification Master Mix No specific treatment.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media

: SureSelect Max Fast Hyb Buffer, 16 Hybs

Use an extinguishing agent suitable for the surrounding fire.

SureSelect RNase Block 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.

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 7/27

# **SECTION 5: Firefighting measures**

Unsuitable extinguishing media

: SureSelect Max Fast Hyb Buffer, 16 Hybs None known.

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

None known. None known. None known.

Capture Primer Mix

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

container may burst.

Blocker Mix, ILM

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

container may burst.

SureSelect Post-Capture Primer Mix Amplification Master Mix 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 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.

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-Capture Primer Mix Amplification Master Mix

No specific data.

Decomposition products may include the following materials: carbon dioxide

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

5.3 Advice for firefighters Special protective actions for fire-fighters

: SureSelect Max Fast Hyb Buffer, 16 Hybs

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.

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

SureSelect Post-Capture Primer Mix

Blocker Mix, ILM

Amplification Master Mix

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.

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 8/27

## SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

: 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.

SureSelect RNase Block

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face piece exercted in positive preserve made

face-piece operated in positive pressure mode.

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.

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.

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.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency 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.

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

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.

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

Date of issue/Date of revision: 12/01/2024Date of previous issue: No previous validationVersion: 1

### SECTION 6: Accidental release measures

unsuitable materials. See also the information in "For nonemergency 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).

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-Capture 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).

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.

Blocker Mix, ILM

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 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.

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 10/27

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

**Protective measures** 

: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Put on appropriate personal protective equipment (see Section 8).

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

Blocker Mix, ILM

Put on appropriate personal protective equipment (see

Section 8).

SureSelect Post-Capture Primer Mix Amplification Master Mix Put on appropriate personal protective equipment (see

Section 8).

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 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.

Advice on general occupational hygiene : SureSelect Max Fast Hyb Buffer, 16 Hybs

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.

Blocker Mix, ILM

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 Post-Capture Primer Mix Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Amplification Master Mix

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage** 

: SureSelect 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 wellventilated 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

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 11/27

# **SECTION 7: Handling and storage**

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 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

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 Industrial applications, Professional applications.

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

Industrial applications, Professional applications.

Industrial sector specific : SureSelect Max Fast Solutions Hyb Buffer, 16 Hybs

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.

Amplification Master Mix Not available.

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 12/27

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
SureSelect Max Fast Hyb Buffer, 16 Hybs ammonium chloride	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 20 mg/m³ 15 minutes. Form: Fume TWA: 10 mg/m³ 8 hours. Form: Fume
SureSelect RNase Block Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
Amplification Master Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist

### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. 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	9.4 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Oral	11.4 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	33.5 mg/m <sup>3</sup>	Workers	Systemic
	DATE	Inhalation	·		
	DNEL	Long term Dermal	55.2 mg/	General	Systemic
	DNEL	Short term Oral	kg bw/day	population General	Cuatamia
	DINEL	Short term Oral	55.2 mg/ kg bw/day	population	Systemic
	DNEL	Long term Dermal	128.9 mg/	Workers	Systemic
	DIVLL	Long term Dermai	kg bw/day	WOIKEIS	Oysternic
			ng bwaay		
Amplification Master Mix					
Trometamol	DNEL	Long term Oral	8.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	29 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	83.3 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	117.5 mg/	Workers	Systemic
	DAIE	Inhalation	m <sup>3</sup>	<b>147</b>	01
	DNEL	Long term Dermal	166.7 mg/	Workers	Systemic
tetramethylammonium chloride	DNEL	Long term Oral	kg bw/day 0.25 mg/	General	Systemic
lettametrylammomum chloride	DINEL	Long term Oral	kg bw/day	population	Systemic
	DNEL	Long term Dermal	0.25 mg/	General	Systemic
	DIVLE	Long torm Borman	kg bw/day	population	Cyclonic
	DNEL	Long term Dermal	0.4 mg/kg	Workers	Systemic
		J	bw/day		,
	DNEL	Long term	1.76 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	2.9 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 13/27

# **SECTION 8: Exposure controls/personal protection**

#### **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**

#### **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.
Liquid.

Capture Primer Mix

Amplification Master Mix Liquid.

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 14/27

# SECTION 9: Physical and chemical properties

Colour SureSelect Max Fast Not available.

Hyb Buffer, 16 Hybs

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

Capture Primer Mix

Amplification Master Mix Not available. Not available.

SureSelect Max Fast Hyb Buffer, 16 Hybs

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

Capture Primer Mix

Amplification Master Mix Not available.

**Odour threshold** SureSelect Max Fast Not available.

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

Capture Primer Mix

Amplification Master Mix Not available. Not available.

Melting point/freezing point

**Odour** 

SureSelect Max Fast

Hyb Buffer, 16 Hybs

SureSelect RNase Block Blocker Mix, ILM  $0^{\circ}C$ 0°C SureSelect Post-

Capture Primer Mix

Amplification Master Mix Not available.

Initial boiling point and boiling range

SureSelect Max Fast Hyb Buffer, 16 Hybs

Not available.

Not available.

SureSelect RNase Block Not available. Blocker Mix, ILM 100°C SureSelect Post-100°C

Capture Primer Mix

Amplification Master Mix Not available. Not applicable.

**Flammability** SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block Not applicable. Blocker Mix, ILM Not applicable. SureSelect Post-Not applicable.

Capture Primer Mix

Amplification Master Mix Not applicable.

**Upper/lower flammability** or explosive limits

SureSelect Max Fast Hyb Buffer, 16 Hybs

Not available.

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

Not available. Not available. Not available.

Amplification Master Mix Not available.

**Flash point** 

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

**Auto-ignition** temperature

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 15/27

# SECTION 9: Physical and chemical properties

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

**Decomposition** temperature

: SureSelect Max Fast

Not available.

Hyb Buffer, 16 Hybs

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

Not available. Not available.

Capture Primer Mix

Amplification Master Mix Not available.

SureSelect Max Fast pH Hyb Buffer, 16 Hybs

SureSelect RNase Block 7.6 Blocker Mix. ILM 7.5 SureSelect Post-7.5 Capture Primer Mix

Amplification Master Mix 8.5

: SureSelect Max Fast Not available.

Hyb Buffer, 16 Hybs

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

Capture Primer Mix

Amplification Master Mix Not available.

Solubility(ies)

**Viscosity** 

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

Amplification Master Mix

Not applicable.

Vapour pressure

Date of issue/Date of revision Date of previous issue : 12/01/2024 : No previous validation Version: 1 16/27

# **SECTION 9: Physical and chemical properties**

	Vapour	Pressure	e at 20°C	Vap	our press	sure at 50°C
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 water	17.5	2.3	-	92.258	12.3	-
SureSelect Post- Capture Primer Mix water  Amplification	17.5	2.3	-	92.258	12.3	-
Master Mix	17 E	2.2		02.259	10.0	
water trometamol	17.5 <0.00075006	2.3 < 0.0001	-  -	92.258	12.3	-  -

**Evaporation rate** 

**Relative density** 

: 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

: 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.

Not available.

Not available. Not available. Not available.

Not available. Not available.

Not available. Not available. Not available.

Not available.

Vapour density

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 17/27

# SECTION 9: Physical and chemical properties

**Explosive properties** 

SureSelect Max Fast Hyb Buffer, 16 Hybs

Not available.

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

Not available. Not available.

Capture Primer Mix

Amplification Master Mix Not available.

Oxidising properties

SureSelect Max Fast Hvb Buffer, 16 Hvbs

Not available.

SureSelect RNase Block Blocker Mix. ILM SureSelect Post-

Not available. Not available. Not available.

Capture Primer Mix **Amplification Master Mix** 

Not available.

**Particle characteristics** 

**Median particle size** 

: SureSelect Max Fast Hyb Buffer, 16 Hybs

Not applicable.

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

Not applicable. Not applicable. Not applicable.

Capture Primer Mix

Amplification Master Mix Not applicable.

#### 9.2 Other information

No additional information.

# **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.

Blocker Mix, ILM

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.

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

product or its ingredients.

Amplification Master Mix 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

The product is stable.

SureSelect RNase Block Blocker Mix, ILM SureSelect Post-

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

Capture Primer Mix 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 reactions will not occur.

Under normal conditions of storage and use, hazardous Blocker Mix, ILM 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.

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 18/27

## **SECTION 10: Stability and reactivity**

10.4 Conditions to avoid

SureSelect Max Fast Hyb Buffer, 16 Hybs No specific data.

SureSelect RNase Block Blocker Mix, ILM SureSelect PostNo specific data. No specific data. No specific data.

Capture Primer Mix

Amplification Master Mix No specific data.

10.5 Incompatible materials

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

May react or be incompatible with oxidising materials.

SureSelect RNase Bloc Blocker Mix, ILM SureSelect Post-Capture Primer 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.

Capture Primer Mix
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

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

Blocker Mix, ILM

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.

# **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	-
SureSelect RNase Block				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Amplification Master Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	-
	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
SureSelect RNase Block Glycerol	12600	N/A	N/A	N/A	N/A
Amplification Master Mix					

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 19/27

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

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

## **SECTION 11: Toxicological information**

Amplification Master Mix	1279.5	7677.0	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
tetramethylammonium chloride	50	300	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	-
SureSelect RNase Block					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Amplification Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
Trometamol	Skin - Moderate irritant	Rabbit	-	mg 25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-

**Sensitiser** 

**Conclusion/Summary** 

**Mutagenicity** 

: Not available.

**Conclusion/Summary** 

**Carcinogenicity** 

: Not available.

**Conclusion/Summary** 

**Reproductive toxicity** 

: Not available.

**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.

#### **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

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version: 1 20/27

# **SECTION 11: Toxicological information**

Inhalation : SureSelect Max Fast No known significant effects or critical hazards. Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostCapture Primer Mix

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

Amplification Master Mix May cause damage to organs following a single exposure if

inhaled.

**Ingestion**: SureSelect Max Fast No known significant effects or critical hazards.

Hyb Buffer, 16 Hybs
SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostCapture Primer Mix

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

Amplification Master Mix Harmful if swallowed. May cause damage to organs

following a single exposure if swallowed.

**Skin contact**: SureSelect Max Fast No known significant effects or critical hazards.

Hyb Buffer, 16 Hybs
SureSelect RNase Block
Blocker Mix, ILM
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Blocker Mix, ILM
SureSelect PostCapture Primer Mix

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

Amplification Master Mix May cause damage to organs following a single exposure in

contact with skin. Causes skin irritation.

**Eye contact**: SureSelect Max Fast No known significant effects or critical hazards.

Hyb Buffer, 16 Hybs
SureSelect RNase Block
Blocker Mix, ILM
No known significant effects or critical hazards.
No known significant effects or critical hazards.

SureSelect PostCapture Primer Mix

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 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.

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.

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.

Blocker Mix, ILM
SureSelect PostCapture Primer Mix
No specific data.
No specific data.

Amplification Master Mix Adverse symptoms may include the following:

irritation redness

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 21/27

# **SECTION 11: Toxicological information**

Eye contact : S

SureSelect Max Fast No specific data.

Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostNo specific data.
No specific data.

Capture Primer Mix

Amplification Master Mix Adverse symptoms may include the following:

pain or irritation watering

watering

#### 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 Max Fast No known significant effects or critical hazards.

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.

Amplification Master Mix

Carcinogenicity: SureSelect Max Fast

SureSelect Max Fast Hyb Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect PostCapture 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.

Mutagenicity : SureSele

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.

Reproductive toxicity

SureSelect Max Fast

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

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.

Amplification Master Mix

No known significant effects or critical hazards.

Other information : SureSelect RNase Block

Adverse symptoms may include the following: May cause

skin sensitisation.

Date of issue/Date of revision: 12/01/2024Date of previous issue: No previous validationVersion: 1

# **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 - Neptune's Necklace -	72 hours
		Hormosira banksii - Gamete	
	Acute LC50 20 µg/l Fresh water	Crustaceans - Giant river prawn	48 hours
		- Macrobrachium rosenbergii -	
		Post-larvae	
	Acute LC50 390 μg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna - Young	
	Acute LC50 80 µg/l Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic EC10 0.03 mg/l Fresh water	Daphnia - Water flea - Daphnia	21 days
		obtusa	
	Chronic NOEC 0.6 mg/l Marine water	Algae - Algae - Entomoneis	72 hours
		punctulata - Exponential growth	
		phase	
	Chronic NOEC 330 µg/l Fresh water	Crustaceans - Amphipod -	21 days
		Crangonyx sp Juvenile	
		(Fledgling, Hatchling, Weanling)	
	Chronic NOEC 0.006 mg/l Fresh water	Fish - Channel catfish -	30 days
	Gineria 11020 diddd ingiri redii water	Ictalurus punctatus - Fry	oo aayo
		,	
SureSelect RNase Block			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
,	and the second s	mykiss	
		my mee	
<b>Amplification Master Mix</b>			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
2,,00,01	7.00.0 E000 0-000 mg/11 room water	mykiss	Too nodio
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
Tometamor	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
tetramethylammonium	Acute LC50 462 mg/l Fresh water	Fish - Fathead minnow -	96 hours
chloride	Acute LC00 402 mg/1 Flesh water	Pimephales promelas	30 Hours
	Not evallable	i inopilales pionielas	

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect RNase Block				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Amplification Master Mix				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-

**Conclusion/Summary**: Not available.

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 23/27

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

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

## **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
SureSelect RNase Block Glycerol	-1.76	-	Low
Amplification Master Mix			
Glycerol	-1.76	-	Low
Trometamol	-2.31	-	Low
tetramethylammonium chloride	<-1.6	-	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 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.

Date of issue/Date of revision: 12/01/2024Date of previous issue: No previous validationVersion: 1

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN 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 UK (GB)/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.

Ozone depleting substances

Not listed.

**Prior Informed Consent (PIC)** 

Not listed.

**Persistent Organic Pollutants** 

Not listed.

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

Product / Ingredient name	Identifiers	Status
SureSelect Max Fast Hyb Buffer, 16 Hybs ammonium chloride		65
Amplification Master Mix Amplification Master Mix		3

Date of issue/Date of revision: 12/01/2024Date of previous issue: No previous validationVersion: 1

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

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

# **SECTION 15: Regulatory information**

Label : SureSelect Max Fast Hyb

Buffer, 16 Hybs

SureSelect RNase Block
Blocker Mix, ILM
SureSelect Post- Capture

Not applicable.
Not applicable.
Not applicable.

Not applicable.

Primer Mix

Amplification Master Mix Not applicable.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### **EU regulations**

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

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

assessment required.

### **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**

United States : 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

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 26/27

### **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 Harmful if swallowed. H319 Causes serious eve 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**

SureSelect Max Fast Hyb Buffer, 16

Hybs

Acute Tox. 4 ACUTE TOXICITY - Category 4

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

Amplification Master Mix

Acute Tox. 2 ACUTE TOXICITY - Category 2
Acute Tox. 3 ACUTE TOXICITY - Category 3
Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 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 - Category 1
STOT SE 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2

Date of issue/ Date of : 12/01/2024

revision

Date of previous issue : No previous validation

Version : 1

#### **Notice to reader**

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

Date of issue/Date of revision : 12/01/2024 Date of previous issue : No previous validation Version : 1 27/27