SAFETY DATA SHEET



SureSelect Max Target Enrichment Kit Overnight Hyb Module, Box 2, 16 96 Hybs

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

1.1 Product identifier

Product name : SureSelect Max Target Enrichment Kit Overnight Hyb Module, Box 2, 16 96 Hybs

Part no. (chemical kit) : 5282-0133, 5282-0135

Part no. : SureSelect Hyb 3 5190-4382 / 5972-3696

 SureSelect RNase Block
 5190-4383 / 5972-3700

 Amplification Master Mix
 5271-0079 / 5271-0083

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

Identified uses : Analytical reagent.

For research use only.

 $\begin{array}{ccc} \text{SureSelect Hyb 3} & & 0.16 \;\; \text{ml} \; / \; 0.4 \; \text{ml} \\ \text{SureSelect RNase Block} & & 0.016 \;\; \text{ml} \; / \; 0.08 \;\; \text{ml} \\ \end{array}$

Amplification Master Mix 0.45 ml (16 reactions) / 2.84 (96

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 : 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 Hyb 3 Mixture SureSelect RNase Block Mixture

Amplification Master Mix Mixture

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

Amplification Master

Mix

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

SureSelect Hyb 3 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.

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

amended.

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SECTION 2: Hazards identification

Ingredients of unknown

toxicity

: SureSelect Hyb 3

Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute oral toxicity: 1 - 10%

SureSelect RNase Block 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 Hyb 3

Contains 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 Hyb 3 Signal word

> SureSelect RNase Block Amplification Master Mix

No signal word. No signal word. Warning

SureSelect Hyb 3 **Hazard statements**

SureSelect RNase Block Amplification Master Mix

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 Hyb 3 Not applicable. Not applicable.

SureSelect RNase Block **Amplification Master Mix**

P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

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

Response

: SureSelect Hyb 3

Not applicable. Not applicable.

SureSelect RNase Block **Amplification Master Mix**

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

CENTER or doctor.

Storage : SureSelect Hyb 3

> SureSelect RNase Block **Amplification Master Mix**

Not applicable. Not applicable. Not applicable.

Disposal

: SureSelect Hyb 3

Not applicable. Not applicable.

SureSelect RNase Block **Amplification Master Mix**

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

Hazardous ingredients

: Amplification Master Mix

tetramethylammonium chloride

Supplemental label

elements

: SureSelect Hyb 3 SureSelect RNase Block Not applicable. Not applicable. Not applicable.

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

mixtures and articles

: SureSelect Hyb 3 SureSelect RNase Block **Amplification Master Mix**

Amplification Master Mix

Not applicable. Not applicable. Not applicable.

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SureSelect Max Target Enrichment Kit Overnight Hyb Module, Box 2, 16_96 Hybs

SECTION 2: Hazards identification

Special packaging requirements

Tactile warning of danger

: SureSelect Hyb 3 Not applicable. SureSelect RNase Block 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 Hyb 3 This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

SureSelect RNase Block This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Amplification Master Mix This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix None known. None known. None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

: SureSelect Hyb 3 SureSelect RNase Block Amplification Master Mix Mixture Mixture Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
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 the full text of the H statements declared above.	ATE [Oral] = 50 mg/kg ATE [Dermal] = 300 mg/kg	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

SureSelect RNase Block

[1] Substance with a workplace exposure limit

Amplification Master Mix

[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.

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SECTION 4: First aid measures

4.1	Descri	ption	of f	irst	aid	measures
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Eye contact: SureSelect Hyb 3 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

any contact lenses. Get medical attention if irritation occurs.

SureSelect RNase Block Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Amplification Master Mix

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.

Inhalation : SureSelect Hyb 3 Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for

48 hours.

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

comfortable for breathing. Get medical attention if

symptoms occur.

Amplification Master Mix 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.

Skin contact: SureSelect Hyb 3: 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.

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 Hyb 3 Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureSelect 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.

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

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SECTION 4: First aid measures

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 No action shall be taken involving any personal risk or : SureSelect Hyb 3

without suitable training.

SureSelect RNase Block 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

Eye contact : SureSelect Hyb 3 No known significant effects or critical hazards.

No known significant effects or critical hazards. SureSelect RNase Block Amplification Master Mix No known significant effects or critical hazards. No known significant effects or critical hazards.

Inhalation : SureSelect Hvb 3 SureSelect RNase Block No known significant effects or critical hazards.

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

> > inhaled.

Skin contact : SureSelect Hyb 3 No known significant effects or critical hazards.

SureSelect RNase Block 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.

Ingestion : SureSelect Hyb 3 No known significant effects or critical hazards. SureSelect RNase Block

No known significant effects or critical hazards. **Amplification Master Mix** Harmful if swallowed. May cause damage to organs

following a single exposure if swallowed.

Adverse symptoms may include the following:

Over-exposure signs/symptoms

Skin contact

Eye contact : SureSelect Hyb 3 No specific data. SureSelect RNase Block No specific data.

> Adverse symptoms may include the following: **Amplification Master Mix**

> > pain or irritation watering redness

: SureSelect Hyb 3 Inhalation No specific data.

SureSelect RNase Block No specific data. No specific data. Amplification Master Mix : SureSelect Hvb 3 No specific data.

SureSelect RNase Block No specific data. **Amplification Master Mix**

> irritation redness

Ingestion : SureSelect Hyb 3 No specific data.

SureSelect RNase Block No specific data. No specific data. Amplification Master Mix

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : SureSelect Hyb 3 In case of inhalation of decomposition products in a fire,

symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

SureSelect RNase Block 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, **Amplification Master Mix** symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

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SECTION 4: First aid measures

Specific treatments

No specific treatment. SureSelect Hyb 3 SureSelect RNase Block No specific treatment. **Amplification Master Mix** No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: SureSelect Hyb 3 SureSelect RNase Block

Amplification Master Mix

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. None known.

Unsuitable extinguishing media

SureSelect RNase Block Amplification Master Mix

None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: SureSelect Hyb 3

: SureSelect Hvb 3

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

Use an extinguishing agent suitable for the surrounding fire.

container may burst.

SureSelect RNase Block

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

container may burst.

Amplification Master Mix

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 Hyb 3

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds

carbonyl halides

SureSelect RNase Block

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Amplification Master Mix

SureSelect RNase Block

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

5.3 Advice for firefighters

Special precautions for fire-fighters

Special protective

equipment for fire-

fighters

: SureSelect Hyb 3

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

taken involving any personal risk or without suitable training. 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. Amplification Master Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

: SureSelect Hyb 3

Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureSelect 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.

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SECTION 5: Firefighting measures

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 fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: SureSelect Hyb 3

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureSelect 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.

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 Hyb 3

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

SureSelect 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".

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 Hyb 3

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureSelect 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).

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.

quantities.

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

Methods for cleaning up : SureSelect Hyb 3 Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

SureSelect 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.

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 Hyb 3 Put on appropriate personal protective equipment (see

Section 8).

SureSelect RNase Block Put on appropriate personal protective equipment (see

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 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 Hyb 3 Eating, drinking and smoking should be prohibited in areas

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

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

Potentially biohazardous material. 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

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SECTION 7: Handling and storage

: SureSelect Hyb 3 Store in accordance with local regulations. Store in original **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.

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.

Store in accordance with local regulations. Store in original Amplification Master Mix

> 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 Hyb 3

> SureSelect RNase Block **Amplification Master Mix**

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

Industrial applications, Professional applications.

Industrial sector specific

solutions

SureSelect Hyb 3

Not available. SureSelect RNase Block Not available. **Amplification Master Mix** Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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

Biological exposure indices

No exposure indices known.

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SECTION 8: Exposure controls/personal protection

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
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

Hygiene measures

: Handle as biohazard material (Biosafety level 1). 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.

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SECTION 8: Exposure controls/personal protection

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 Hyb 3 Liquid.

SureSelect RNase Block Liquid. Amplification Master Mix Liquid.

Colour : SureSelect Hyb 3 Not available.

SureSelect RNase Block Not available.
Amplification Master Mix Not available.

Odour : SureSelect Hyb 3 Not available.
SureSelect RNase Block Not available.
Amplification Master Mix Not available.

Odour threshold : SureSelect Hyb 3 Not available. SureSelect RNase Block Not available.

Amplification Master Mix

Not available.

Not available.

Melting point/freezing: SureSelect Hyb 30°CpointSureSelect RNase BlockNot

SureSelect RNase Block Not available. Amplification Master Mix Not available.

Initial boiling point and : SureSelect Hyb 3 100°C boiling range : SureSelect RNase Block Not av

SureSelect RNase Block Not available.

Amplification Master Mix Not available.

Flammability : SureSelect Hyb 3 Not applicable.
SureSelect RNase Block Not applicable.
Amplification Master Mix Not applicable.

Amplification Master Mix Not applicable. SureSelect Hyb 3 Not available.

Upper/lower flammability or explosive limits

Flash point :

SureSelect RNase Block Not available.
Amplification Master Mix Not available.

Closed cup

Ingredient name

C Method

		C	losed cup		Open cup
Ingredient na	me	°C	Method	°C	Method
SureSelect R	Nase Block				
glycerol		-	-	177	-
Amplification	Master Mix				
glycerol		-	-	177	-

Auto-ignition temperature

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SECTION 9: Physical and chemical properties

Ingredient name	°C	Method
SureSelect RNase Block		
glycerol	370	-
Amplification Master Mix		
glycerol	370	-

Decomposition temperature

: SureSelect Hyb 3 Not available.
SureSelect RNase Block Not available.
Amplification Master Mix Not available.

pH : SureSelect Hyb 3 7

SureSelect RNase Block 7.6 Amplification Master Mix 8.5

Viscosity : SureSelect Hyb 3 Not available.

SureSelect RNase Block Not available. Amplification Master Mix Not available.

Solubility(ies)

Media Result

SureSelect Hyb 3

water Soluble

SureSelect RNase Block

water Soluble

Amplification Master Mix

water Soluble

Partition coefficient: n-octanol/water

SureSelect Hyb 3 Not applicable.
SureSelect RNase Block
Amplification Master Mix Not applicable.

Vapour pressure

	Vapour Pressure at 20°C		Vap	our press	sure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
SureSelect Hyb 3						
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	-
Amplification Master Mix						
water	17.5	2.3	-	92.258	12.3	-
trometamol	<0.00075006	<0.0001	-	-	-	-

Evaporation rate

: SureSelect Hyb 3

Not available.

Relative density :

SureSelect RNase Block Amplification Master Mix Not available.

SureSelect Hyb 3 Not available.

Not available.

Vapour density

SureSelect RNase Block Not available.
Amplification Master Mix Not available.

SureSelect Hyb 3 Not available.

SureSelect RNase Block
Amplification Master Mix
Not available.
Not available.

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SECTION 9: Physical and chemical properties

Explosive properties

: SureSelect Hyb 3

Not available.

SureSelect RNase Block Amplification Master Mix Not available. Not available.

Oxidising properties

: SureSelect Hyb 3

Not available.

SureSelect RNase Block Amplification Master Mix Not available. Not available.

Particle characteristics

Median particle size

: SureSelect Hyb 3

Not applicable.

SureSelect RNase Block Amplification Master Mix Not applicable. Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

: SureSelect Hyb 3

No specific test data related to reactivity available for this

product or its ingredients.

SureSelect RNase Block

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 Hyb 3

SureSelect RNase Block Amplification Master Mix The product is stable. The product is stable.

The product is stable.

10.3 Possibility of hazardous reactions

: SureSelect Hyb 3

Under normal conditions of storage and use, hazardous

reactions will not occur.

SureSelect RNase Block

Under normal conditions of storage and use, hazardous

reactions will not occur.

Amplification Master Mix

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

: SureSelect Hyb 3

SureSelect RNase Block Amplification Master Mix No specific data. No specific data.

10.5 Incompatible

materials

SureSelect Hyb 3

SureSelect RNase Block Amplification Master Mix No specific data.

,p.....

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

10.6 Hazardous decomposition products

: SureSelect Hyb 3

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

SureSelect RNase Block

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Amplification Master Mix

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Amplification Master Mix Trometamol	LD50 Dermal	Rat	>5000 mg/kg	
tetramethylammonium	LD50 Dermal		200 to 500 mg/kg	-
chloride	LD50 Oral	Female Rat	50 mg/kg	-

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SECTION 11: Toxicological information

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)
Amplification Master Mix Amplification Master Mix tetramethylammonium chloride			N/A N/A	N/A N/A	N/A N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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.

Aspiration hazard

Not available.

Information on likely routes of exposure

: SureSelect Hyb 3

Not available.

SureSelect RNase Block Amplification Master Mix

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

Potential acute health effects

Inhalation

: SureSelect Hyb 3

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

SureSelect RNase Block Amplification Master Mix

May cause damage to organs following a single exposure if

inhaled.

Ingestion

: SureSelect Hyb 3 SureSelect RNase Block 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 Hyb 3 SureSelect RNase Block

Amplification Master 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 Hyb 3 SureSelect RNase Block Amplification Master Mix No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : SureSelect Hyb 3 No specific data.

SureSelect RNase Block
Amplification Master Mix

SureSelect Hyb 3

No specific data.

No specific data.

SureSelect RNase Block
Amplification Master Mix
SureSelect Hyb 3
No specific data.
No specific data.

SureSelect RNase Block No specific data.

Amplification Master Mix Adverse symptoms may income.

Amplification Master Mix Adverse symptoms may include the following: irritation

redness

Eye contact : SureSelect Hyb 3 No specific data. SureSelect RNase Block No specific data.

Amplification Master Mix Adverse symptoms may include the following:

redness

pain or irritation watering

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

Short term exposure

Potential immediate

effects

Ingestion

Skin contact

Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

Not available.

Potential delayed

effects

: Not available.

0110010

Potential chronic health effects

Conclusion/Summary: Not available.

General: SureSelect Hyb 3 No known significant effects or critical hazards.

SureSelect RNase Block
Amplification Master Mix
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Carcinogenicity: SureSelect Hyb 3: No known significant effects or critical hazards.

SureSelect RNase Block No known significant effects or critical hazards. Amplification Master Mix No known significant effects or critical hazards.

Mutagenicity: SureSelect Hyb 3 No known significant effects or critical hazards.

SureSelect RNase Block No known significant effects or critical hazards. Amplification Master Mix No known significant effects or critical hazards.

Reproductive toxicity: SureSelect Hyb 3: No known significant effects or critical hazards. SureSelect RNase Block: No known significant effects or critical hazards.

SureSelect RNase Block No known significant effects or critical hazards.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Amplification Master Mix Trometamol tetramethylammonium chloride	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 462 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours

12.2 Persistence and degradability

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Amplification Master Mix Trometamol tetramethylammonium chloride	-	-	Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Amplification Master Mix			
Trometamol	-2.31	-	Low
tetramethylammonium	<-1.6	-	Low
chloride			

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.

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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

Methods of disposal

Packaging

: 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.

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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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.

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SECTION 15: Regulatory information

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]
Amplification Master Mix Amplification Master Mix	-	3

Label : SureSelect Hyb 3 Not applicable.
SureSelect RNase Block Not applicable.

Amplification Master Mix Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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

: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

15.2 Chemical safety

assessment

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

be required.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
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

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]

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
Aquatic Chronic 3	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

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revision

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