Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

1/20

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

Section 1. Identification

Product identifier	SureSelect Max Target Enrichment Kit Fast Hyb Module, Box 2, 16_96 Hybs	
Part no. (chemical kit)	5282-0129, 5282-0131	
Part no.	SureSelect Max Fast Hyb Buffer, 16 Hybs 5271-0085 / 5271-0086 SureSelect RNase Block 5190-4383 / 5972-3700 Amplification Master Mix 5271-0079 / 5271-0083	
Relevant identified uses of t	substance or mixture and uses advised against	
Identified uses	Analytical reagent. For research use only.	
	SureSelect Max Fast Hyb Buffer, 16 Hybs0.108 ml / 0.768 mlSureSelect RNase Block0.016 ml / 0.08 mlAmplification Master Mix0.45 ml (16 reactions) / 2.84 ml (16 reaction	96
Uses advised against	Not for use in diagnostic procedures.	
Supplier/Manufacturer	Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402	
Emergency telephone number (with hours of operation)	CHEMTREC®: +(61)-290372994	

Section 2. Hazard(s) identification

Classification of the substan SureSelect Max Fast Hyb Buffer, 16 Hybs	nce or mixture			
H400 ́ H411	SHORT-TERM (ACUTE) AQUA LONG-TERM (CHRONIC) AQU			
SureSelect RNase Block H320	SERIOUS EYE DAMAGE/EYE	IRRITATION - Category 2B		
Amplification Master Mix				
H302	ACUTE TOXICITY (oral) - Category 4			
H315	SKIN CORROSION/IRRITATION - Category 2			
H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A			
H371	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2			
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3			
	SureSelect Max Fast Hyb Buffer, 16 Hybs	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 20.3%		

GHS label elements

Section 2. Hazard(s) identification

Section 2. Hazard(s) identification	
Hazard pictograms :	SureSelect Max Fast Hyb Buffer, 16 Hybs	
	Amplification Master Mix	
Signal word :	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block	WARNING
	Amplification Master Mix	WARNING
Hazard statements :	SureSelect Max Fast Hyb Buffer, 16 Hybs	H400 - Very toxic to aquatic life.
	SureSelect RNase Block Amplification Master Mix	 H411 - Toxic to aquatic life with long lasting effects. H320 - Causes eye irritation. H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H371 - May cause damage to organs.(central nervous system (CNS)) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention :	SureSelect Max Fast Hyb Buffer, 16 Hybs	P273 - Avoid release to the environment.
	SureSelect RNase Block Amplification Master Mix	Not applicable. P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product.
Response :	SureSelect Max Fast Hyb Buffer, 16 Hybs	P391 - Collect spillage.
	SureSelect RNase Block	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	Amplification Master Mix	P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
Storage :	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block	Not applicable. Not applicable.
	Amplification Master Mix	Not applicable.
Disposal :	SureSelect Max Fast Hyb Buffer, 16 Hybs	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SureSelect RNase Block Amplification Master Mix	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements		
Additional warning : phrases	SureSelect Max Fast Hyb Buffer, 16 Hybs	Not applicable.
	SureSelect RNase Block Amplification Master Mix	Not applicable. Not applicable.

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Section 2. Hazard(s) identification

Other hazards which do not result in classification	1	SureSelect Max Fast Hyb Buffer, 16 Hybs	None known.
		SureSelect RNase Block Amplification Master Mix	None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	SureSelect Max Fast Hyb Buffer, 16 Hybs	Mixture
	SureSelect RNase Block Amplification Master Mix	Mixture Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
SureSelect Max Fast Hyb Buffer, 16 Hybs		
Ammonium chloride	≤3	12125-02-9
Sura Salaat Dhaaa Blaak		
SureSelect RNase Block		
Glycerol	≥30 - ≤60	56-81-5
Amplification Master Mix		
Glycerol	≥30 - ≤60	56-81-5
Trometamol	≤10	77-86-1
tetramethylammonium chloride	<10	75-57-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

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Description of necessary	first ald measures	
Eye contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect RNase Block	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	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 Max Fast Hyb Buffer, 16 Hybs	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
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Section 4. First aid measures

	Amplification Master Mix	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 if adverse health effects persist or are severe. 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. 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 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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.
	SureSelect RNase Block	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 adverse health effects persist or are severe. 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.
	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

Section 4. First aid measures

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block	No known significant effects or critical hazards. Causes eye irritation.
	Amplification Master Mix	Causes serious eye irritation.
Inhalation	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block Amplification Master Mix	No known significant effects or critical hazards. May cause damage to organs following a single exposure if inhaled.
Skin contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect RNase Block Amplification Master Mix	No known significant effects or critical hazards. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation.
Ingestion	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No known significant effects or critical hazards.
	SureSelect ŘNase Block Amplification Master Mix	No known significant effects or critical hazards. Harmful if swallowed. May cause damage to organs following a single exposure if swallowed.
Over-exposure signs/sympto	<u>ms</u>	
Eye contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
	Amplification Master Mix	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block Amplification Master Mix	No specific data. No specific data.
Skin contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block Amplification Master Mix	No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block Amplification Master Mix	No specific data. No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

Notes to physician	: SureSelect Max Fast Hyb Buffer, 16 Hybs In case of inhalation of decompositio fire, symptoms may be delayed. The person may need to be kept under m surveillance for 48 hours.	exposed
	SureSelect RNase Block Treat symptomatically. Contact pois specialist immediately if large quantil ingested or inhaled.	
	Amplification Master Mix In case of inhalation of decompositio fire, symptoms may be delayed. The person may need to be kept under m surveillance for 48 hours.	exposed
Specific treatments	: SureSelect Max Fast Hyb No specific treatment. Buffer, 16 Hybs	
	SureSelect RNase BlockNo specific treatment.Amplification Master MixNo specific treatment.	
Protection of first-aiders	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block No action shall be taken involving an or without suitable training. No action shall be taken involving an or without suitable training. It may be the person providing aid to give mou resuscitation.	y personal risk e dangerous to
	Amplification Master Mix No action shall be taken involving an or without suitable training. It may be the person providing aid to give mou resuscitation.	e dangerous to

See toxicological information (Section 11)

Section 5. Firefighting measures

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Extinguishing media		
Suitable extinguishing media	: SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Amplification Master 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.
Unsuitable extinguishing media	: SureSelect Max Fast Hyb Buffer, 16 Hybs	None known.
	SureSelect RNase Block Amplification Master Mix	None known. None known.
Specific hazards arising from the chemical	: SureSelect Max Fast Hyb Buffer, 16 Hybs	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic 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.
	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.

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Section 5. Firefighting measures

Hazardous thermal decomposition 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
	Amplification Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Special protective actions for fire-fighters	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	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.
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 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

Personal precautions, pro	ptective equipment and emergence	<u>cy procedures</u>
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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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

Section 6. Accidental release measures

		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".
	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".
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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
	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.
Methods and material for co	entainment 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.
	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.

Section 7. Handling and storage

Precautions for safe handling		
Protective measures	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.
	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 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.
	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.
Conditions for safe storage, including any incompatibilities	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 7. Handling and storage

SureSelect RNase Block	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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.
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Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	Safe Work Australia (Australia, 10/2022). STEL: 20 mg/m³ 15 minutes. Form: Fume TWA: 10 mg/m³ 8 hours. Form: Fume
SureSelect RNase Block	Safe Work Australia (Australia, 10/2022).
Glycerol	TWA: 10 mg/m³ 8 hours.
Amplification Master Mix	Safe Work Australia (Australia, 10/2022).
Glycerol	TWA: 10 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

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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.
Individual protection mea	isures
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.
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.

Section 8. Exposure controls and personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Liquid.
	SureSelect RNase Block Amplification Master Mix	Liquid. Liquid.
Colour	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Not available.
	SureSelect RNase Block Amplification Master Mix	Not available. Not available.
Odour	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Not available.
	SureSelect RNase Block Amplification Master Mix	Not available. Not available.
Odour threshold	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Not available.
	SureSelect RNase Block Amplification Master Mix	Not available. Not available.
рН	: SureSelect Max Fast Hyb Buffer, 16 Hybs	8
	SureSelect RNase Block Amplification Master Mix	7.6 8.5
Melting point/freezing point		Not available.
	SureSelect RNase Block	Not available.
	Amplification Master Mix	Not available.
Boiling point, initial boiling point, and boiling range	: SureSelect Max Fast Hyb Buffer, 16 Hybs	Not available.
	SureSelect RNase Block Amplification Master Mix	Not available. Not available.
Flash point	:	
Date of issue/Date of revision	: 31/05/2024 Date of previous i	issue : No previous validation

Section 9. Physical and chemical properties and safety characteristics

			Closed of	cup		Open o	cup
	Ingredient name	°C	°F	Method	°C	°F	Method
	SureSelect RNase Block						
	Glycerol	-	-	-	177	350.6	-
	Amplification Master Mix						
	Glycerol	-	-	-	177	350.6	-
Evaporation rate	: SureSelect Max Fas Buffer, 16 Hybs SureSelect RNase E	•	Not avail Not avail			1	1
	Amplification Master		Not avail				
Flammability	: SureSelect Max Fas Buffer, 16 Hybs		Not appli				
	SureSelect RNase E Amplification Master	Mix	Not appli Not appli	cable.			
Lower and upper explosion imit/flammability limit	: SureSelect Max Fas Buffer, 16 Hybs	t Hyb	Not avail	aple.			
-	SureSelect RNase E Amplification Master		Not avail Not avail				
/apour pressure	:	Vapoι	u <mark>r Press</mark> u	re at 20°C	Vapo	ur pressu	ure 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		0.00001	-	0.0025	0.00033	-
Relative vapour density	: SureSelect Max Fas Buffer, 16 Hybs SureSelect RNase E Amplification Master	Block	Not avail Not avail Not avail	able.			
Relative density	: SureSelect Max Fas Buffer, 16 Hybs SureSelect RNase E	•	Not avail				
	Amplification Master		Not available. Not available.				
Solubility(ies)	: Media			Result			
	SureSelect Max Fa Hybs water	st Hyb Bı	uffer, 16	Soluble			
	SureSelect RNase water			Soluble			
	Amplification Mast water	er Mix		Soluble			

Section 9. Physical and chemical properties and safety characteristics

Partition coefficient: n-	:	SureSelect Max Fast Hyb	N	ot applicable		
octanol/water		Buffer, 16 Hybs SureSelect RNase Block Amplification Master Mix		ot applicable ot applicable		
Auto-ignition temperature	:	Ingredient name		°C	°F	Method
		SureSelect Max Fast Hyb Buffer, 16 Hybs				
		Ammonium chloride		>400	>752	EU A.16
		SureSelect RNase Block				
		Glycerol		370	698	-
		Amplification Master Mix				
		Glycerol		370	698	-
Decomposition temperature	:	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Amplification Master Mix	N	ot available. ot available. ot available.		
Viscosity	:	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Amplification Master Mix	N	ot available. ot available. ot available.		
Particle characteristics						
Median particle size	:	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Amplification Master Mix	N	ot applicable ot applicable ot applicable		
Section 10. Stabili	ty	and reactivity				
Reactivity	:	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Amplification Master Mix	th N th N	is product or o specific tes is product or	its ingredi st data rela its ingredi st data rela	ted to reactivity available for ents. ted to reactivity available for
Chemical stability	:	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block		ne product is ne product is		
		Amplification Master Mix		ne product is		
Possibility of hazardous reactions	:	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Amplification Master Mix	ha U ha U	azardous rea nder normal azardous rea	ctions will conditions ctions will conditions	of storage and use, not occur. of storage and use,
Conditions to avoid	:	SureSelect Max Fast Hyb Buffer, 16 Hybs SureSelect RNase Block Amplification Master Mix	Ν	o specific da o specific da o specific da	ta.	

Section 10. Stability and reactivity

	-j j	
Incompatible materials	: SureSelect Max Fast Hyb Buffer, 16 Hybs	May react or be incompatible with oxidising materials.
	SureSelect RNase Block	May react or be incompatible with oxidising materials.
	Amplification Master Mix	May react or be incompatible with oxidising materials.
Hazardous decomposition	: SureSelect Max Fast Hyb	Under normal conditions of storage and use,
products	Buffer, 16 Hybs	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

Information on toxicological effects

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	LD50 Dermal	Rabbit - Male,	200 to 500 mg/	-
chloride		Female	kg	
	LD50 Oral	Rat	50 mg/kg	-

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 mg	-
Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary

nmary : Not available.

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Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ toxici	<u>ty (single exposure)</u>

Name	Category	Route of exposure	Target organs
Amplification Master Mix			
Trometamol	Category 3	-	Respiratory tract irritation
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	reSelect Max Fast Hyb ffer, 16 Hybs reSelect RNase Block nplification Master Mix Routes of entry anticipated: O Eyes. Routes of entry anticipated: O Eyes. Routes of entry anticipated: O Eyes. Routes of entry anticipated: O Eyes.	ral, Dermal, Inhalation,
Potential acute health effects		
Eye contact	reSelect Max Fast Hyb No known significant effects o ffer, 16 Hybs	r critical hazards.
	reSelect RNase Block Causes eye irritation.	
	nplification Master Mix Causes serious eye irritation.	
Inhalation	reSelect Max Fast Hyb No known significant effects o ffer, 16 Hybs	r critical hazards.
	reSelect RNase Block plification Master Mix x any blick with the select RNase Block No known significant effects o May cause damage to organs exposure if inhaled.	
Skin contact	reSelect Max Fast Hyb No known significant effects o ffer, 16 Hybs	r critical hazards.
	reSelect RNase Block nplification Master Mix sexposure in contact with skin.	following a single
Ingestion	reSelect Max Fast Hyb No known significant effects o ffer, 16 Hybs	r critical hazards.
	reSelect RNase Block nplification Master Mix following a single exposure if s	use damage to organs

Symptoms related to	the physical, chemical a	nd toxicological characteristics

Eye contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
	Amplification Master Mix	Adverse symptoms may include the following: pain or irritation

Section 11. Toxicological information

		watering redness
Inhalation	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block Amplification Master Mix	No specific data. No specific data.
Skin contact	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block Amplification Master Mix	No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	: SureSelect Max Fast Hyb Buffer, 16 Hybs	No specific data.
	SureSelect RNase Block Amplification Master Mix	No specific data. No specific data.

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 eff	<u>ets</u>	
General	: SureSelect Max Fast Hyb No known significant effects or critical hazards Buffer, 16 Hybs	3.
	SureSelect RNase BlockNo known significant effects or critical hazardsAmplification Master MixNo known significant effects or critical hazards	
Carcinogenicity	: SureSelect Max Fast Hyb No known significant effects or critical hazards Buffer, 16 Hybs	3.
	SureSelect RNase Block No known significant effects or critical hazards Amplification Master Mix No known significant effects or critical hazards	
Mutagenicity	: SureSelect Max Fast Hyb No known significant effects or critical hazards Buffer, 16 Hybs	.
	SureSelect RNase Block No known significant effects or critical hazards Amplification Master Mix No known significant effects or critical hazards	
Reproductive toxicity	: SureSelect Max Fast Hyb No known significant effects or critical hazards Buffer, 16 Hybs	3.
	SureSelect RNase BlockNo known significant effects or critical hazardsAmplification Master MixNo known significant effects or critical hazards	

Numerical measures of toxicity

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)

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SureSelect Max Fast Hyb Buffer, 16 Hybs					
SureSelect Max Fast Hyb Buffer, 16 Hybs	61693.9	N/A	N/A	N/A	N/A
Ammonium chloride	1650	N/A	N/A	N/A	N/A
SureSelect RNase Block					
Glycerol	12600	N/A	N/A	N/A	N/A
Amplification Master Mix					
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

Other information

: SureSelect RNase Block

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

Section 12. Ecological information

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 - <i>Hormosira banksii</i> - Gamete	72 hours
	Acute LC50 20 μg/l Fresh water	Crustaceans - <i>Macrobrachium</i> <i>rosenbergii</i> - Post-larvae	48 hours
	Acute LC50 390 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Young	48 hours
	Acute LC50 80 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic EC10 0.03 mg/l Fresh water	Daphnia - Daphnia obtusa	21 days
	Chronic NOEC 0.6 mg/l Marine water	Algae - <i>Entomoneis punctulata</i> - Exponential growth phase	72 hours
	Chronic NOEC 330 µg/l Fresh water	Crustaceans - <i>Crangonyx sp.</i> - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 0.006 mg/l Fresh water	Fish - Ictalurus punctatus - Fry	30 days
SureSelect RNase Block			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Amplification Master Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours

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	93 % - 30 days	-	-
Date of issue/Date of revision	: 31/05/2024	Date of previous issue	: No previous validation	Version : 1 17/20

Section 12. Ecological information

Section 12. Ecological information					
Trometamol	Test OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 2	28 days	30 mg/l	-
Product/ingredient name	Aquatic half-life		Photolysi	S	Biodegradability
SureSelect Max Fast Hyb Buffer, 16 Hybs Ammonium chloride	-		-		Readily
Amplification Master Mix Trometamol tetramethylammonium chloride	-		-		Readily Readily

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

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport information

ADG / IMDG / IATA	: N	Not regulated as Da	ngerous Goods	according to the	ADG Code .
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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.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

United States : Not determined.

Section 16. Any other relevant information

<u>History</u>	
Date of issue/Date of revision	: 31/05/2024
Date of previous issue	: No previous validation
Version	: 1
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Section 16. Any other relevant information

Procedure used to derive the classification

Classification	Justification
SureSelect Max Fast Hyb Buffer, 16 Hybs SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	Calculation method Calculation method
SureSelect RNase Block SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
Amplification Master Mix ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method Calculation method Calculation method Calculation method

V Indicates information that has changed from previously issued version.

Notice to reader

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