

SAFETY DATA SHEET

SureSelect Target Enrichment Kit - Box 2, 96 Reactions, Part Number 5190-9458

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

1.1 Product identifier

Product name	: SureSelect Target Enrichment Kit - Box 2, 96 Reactions, Part Number 5190-9458
Part no. (chemical kit)	: 5190-9458
Part no.	: SureSelect Hyb 3 5972-3696
	SureSelect Indexing Block 1 5972-3697
	SureSelect RNase Block 5972-3700
	SureSelect Block 2 5972-3698

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

Identified uses	: Analytical reagent.
	SureSelect Hyb 3 3 x 400 µl
	SureSelect Indexing Block 1 3 x 300 µl
	SureSelect RNase Block 2 x 80 µl
	SureSelect Block 2 3 x 300 µl
Uses advised against	: None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: SureSelect Hyb 3 Mixture
	SureSelect Indexing Block 1 Mixture
	SureSelect RNase Block Mixture
	SureSelect Block 2 Mixture

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

Not classified.

SureSelect Hyb 3	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Indexing Block 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect RNase Block	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Block 2	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

Signal word	SureSelect Hyb 3	No signal word.
	SureSelect Indexing Block 1	No signal word.
	SureSelect RNase Block	No signal word.
	SureSelect Block 2	No signal word.
Hazard statements	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.
Response	SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.
Storage	SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.
Disposal	SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.
Supplemental label elements	SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.
<u>Special packaging requirements</u>		

SECTION 2: Hazards identification

Tactile warning of danger	SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	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 Indexing Block 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect RNase Block	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Block 2	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	None known.
	SureSelect Indexing Block 1	None known.
	SureSelect RNase Block	None known.
	SureSelect Block 2	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	SureSelect Hyb 3	Mixture
	SureSelect Indexing Block 1	Mixture
	SureSelect RNase Block	Mixture
	SureSelect Block 2	Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
SureSelect RNase Block glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified. See Section 16 for the full text of the H statements declared above.	-	[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
Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures		
Eye contact	SureSelect Hyb 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 Indexing Block 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect RNase Block	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Block 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

SECTION 4: First aid measures

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 Indexing Block 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Block 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: SureSelect Hyb 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Indexing Block 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Block 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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 Indexing Block 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect RNase Block	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Block 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: SureSelect Hyb 3	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Indexing Block 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Block 2	No action shall be taken involving any personal risk or without suitable training.

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

SECTION 4: First aid measures

Eye contact	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
Inhalation	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
Skin contact	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
Ingestion	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	No specific data.
Inhalation	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	No specific data.
Skin contact	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	No specific data.
Ingestion	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	No specific data.

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 Indexing Block 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Block 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: SureSelect Hyb 3	No specific treatment.
	SureSelect Indexing Block 1	No specific treatment.
	SureSelect RNase Block	No specific treatment.
	SureSelect Block 2	No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media	: SureSelect Hyb 3	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Indexing Block 1	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Block 2	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: SureSelect Hyb 3	None known.
	SureSelect Indexing Block 1	None known.
	SureSelect RNase Block	None known.
	SureSelect Block 2	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: SureSelect Hyb 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Indexing Block 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Block 2	In a fire or if heated, a pressure increase will occur and the container may burst.
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 Indexing Block 1	No specific data.
	SureSelect RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SureSelect Block 2	No specific data.

5.3 Advice for firefighters

Special precautions 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.
	SureSelect Indexing Block 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Block 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: 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 Indexing Block 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 5: Firefighting measures

SureSelect RNase Block	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect Block 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 Indexing Block 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect Block 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

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 Indexing Block 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect RNase Block	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Block 2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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 Indexing Block 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect RNase Block	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

SECTION 6: Accidental release measures

	authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Block 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

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 Indexing Block 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureSelect RNase Block	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureSelect Block 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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.
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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 Indexing Block 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Block 2	Put on appropriate personal protective equipment (see Section 8).
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.
	SureSelect Indexing Block 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SureSelect 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.

SECTION 7: Handling and storage

SureSelect Block 2

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

7.2 Conditions for safe storage, including any incompatibilities

Storage	: SureSelect Hyb 3	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	SureSelect Indexing Block 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	SureSelect RNase Block	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	SureSelect Block 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	Not available. Not available. Not available. Not available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

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

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

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

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls**Appropriate engineering controls**

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

Individual protection measures**Hygiene measures**

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

Eye/face protection

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

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.

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 Indexing Block 1	Liquid.																						
		SureSelect RNase Block	Liquid.																						
		SureSelect Block 2	Liquid.																						
Colour	:	SureSelect Hyb 3	Not available.																						
		SureSelect Indexing Block 1	Not available.																						
		SureSelect RNase Block	Not available.																						
		SureSelect Block 2	Not available.																						
Odour	:	SureSelect Hyb 3	Not available.																						
		SureSelect Indexing Block 1	Not available.																						
		SureSelect RNase Block	Not available.																						
		SureSelect Block 2	Not available.																						
Odour threshold	:	SureSelect Hyb 3	Not available.																						
		SureSelect Indexing Block 1	Not available.																						
		SureSelect RNase Block	Not available.																						
		SureSelect Block 2	Not available.																						
Melting point/freezing point	:	SureSelect Hyb 3	0°C																						
		SureSelect Indexing Block 1	0°C																						
		SureSelect RNase Block	Not available.																						
		SureSelect Block 2	0°C																						
Initial boiling point and boiling range	:	SureSelect Hyb 3	100°C																						
		SureSelect Indexing Block 1	100°C																						
		SureSelect RNase Block	Not available.																						
		SureSelect Block 2	100°C																						
Flammability	:	SureSelect Hyb 3	Not applicable.																						
		SureSelect Indexing Block 1	Not applicable.																						
		SureSelect RNase Block	Not applicable.																						
		SureSelect Block 2	Not applicable.																						
Upper/lower flammability or explosive limits	:	SureSelect Hyb 3	Not available.																						
		SureSelect Indexing Block 1	Not available.																						
		SureSelect RNase Block	Not available.																						
		SureSelect Block 2	Not available.																						
Flash point	:	SureSelect Hyb 3	Not available.																						
		SureSelect Indexing Block 1	Not available.																						
		SureSelect RNase Block	Not available.																						
		SureSelect Block 2	Not available.																						
Auto-ignition temperature		<table><tr><td></td><td colspan="2">Closed cup</td><td colspan="2">Open cup</td></tr><tr><td>Ingredient name</td><td>°C</td><td>Method</td><td>°C</td><td>Method</td></tr><tr><td>SureSelect RNase Block</td><td></td><td></td><td></td><td></td></tr><tr><td>glycerol</td><td>-</td><td>-</td><td>177</td><td>-</td></tr></table>					Closed cup		Open cup		Ingredient name	°C	Method	°C	Method	SureSelect RNase Block					glycerol	-	-	177	-
		Closed cup		Open cup																					
	Ingredient name	°C	Method	°C	Method																				
	SureSelect RNase Block																								
	glycerol	-	-	177	-																				
	:	Ingredient name		°C	Method																				
		SureSelect RNase Block																							
		glycerol		370	-																				

SECTION 9: Physical and chemical properties

Decomposition temperature	: SureSelect Hyb 3	Not available.																																																
	SureSelect Indexing Block 1	Not available.																																																
	SureSelect RNase Block	Not available.																																																
	SureSelect Block 2	Not available.																																																
pH	: SureSelect Hyb 3	7																																																
	SureSelect Indexing Block 1	Not available.																																																
	SureSelect RNase Block	7.6																																																
	SureSelect Block 2	Not available.																																																
Viscosity	: SureSelect Hyb 3	Not available.																																																
	SureSelect Indexing Block 1	Not available.																																																
	SureSelect RNase Block	Not available.																																																
	SureSelect Block 2	Not available.																																																
Solubility(ies)	: <table><tr><th>Media</th><th>Result</th></tr><tr><td>SureSelect Hyb 3 water</td><td>Soluble</td></tr><tr><td>SureSelect Indexing Block 1 water</td><td>Soluble</td></tr><tr><td>SureSelect RNase Block water</td><td>Soluble</td></tr><tr><td>SureSelect Block 2 water</td><td>Soluble</td></tr></table>	Media	Result	SureSelect Hyb 3 water	Soluble	SureSelect Indexing Block 1 water	Soluble	SureSelect RNase Block water	Soluble	SureSelect Block 2 water	Soluble																																							
Media	Result																																																	
SureSelect Hyb 3 water	Soluble																																																	
SureSelect Indexing Block 1 water	Soluble																																																	
SureSelect RNase Block water	Soluble																																																	
SureSelect Block 2 water	Soluble																																																	
Partition coefficient: n-octanol/water	: SureSelect Hyb 3	Not applicable.																																																
	SureSelect Indexing Block 1	Not applicable.																																																
	SureSelect RNase Block	Not applicable.																																																
	SureSelect Block 2	Not applicable.																																																
Vapour pressure	: <table><tr><th rowspan="2">Ingredient name</th><th colspan="3">Vapour Pressure at 20°C</th><th colspan="3">Vapour pressure at 50°C</th></tr><tr><th>mm Hg</th><th>kPa</th><th>Method</th><th>mm Hg</th><th>kPa</th><th>Method</th></tr><tr><td>SureSelect Hyb 3 water</td><td>17.5</td><td>2.3</td><td>-</td><td>92.258</td><td>12.3</td><td>-</td></tr><tr><td>SureSelect Indexing Block 1 water</td><td>17.5</td><td>2.3</td><td>-</td><td>92.258</td><td>12.3</td><td>-</td></tr><tr><td>SureSelect RNase Block water</td><td>17.5</td><td>2.3</td><td>-</td><td>92.258</td><td>12.3</td><td>-</td></tr><tr><td>glycerol</td><td>0.000075</td><td>0.00001</td><td>-</td><td>0.0025</td><td>0.00033</td><td>-</td></tr><tr><td>SureSelect Block 2 water</td><td>17.5</td><td>2.3</td><td>-</td><td>92.258</td><td>12.3</td><td>-</td></tr></table>	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C			mm Hg	kPa	Method	mm Hg	kPa	Method	SureSelect Hyb 3 water	17.5	2.3	-	92.258	12.3	-	SureSelect Indexing Block 1 water	17.5	2.3	-	92.258	12.3	-	SureSelect RNase Block water	17.5	2.3	-	92.258	12.3	-	glycerol	0.000075	0.00001	-	0.0025	0.00033	-	SureSelect Block 2 water	17.5	2.3	-	92.258	12.3	-	
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SureSelect Block 2 water	17.5	2.3	-	92.258	12.3	-																																												
Evaporation rate	: SureSelect Hyb 3	Not available.																																																
	SureSelect Indexing Block 1	Not available.																																																
	SureSelect RNase Block	Not available.																																																
	SureSelect Block 2	Not available.																																																

SECTION 9: Physical and chemical properties

Relative density	: SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Block 2	Not available.
Vapour density	: SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Block 2	Not available.
Explosive properties	: SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Block 2	Not available.
Oxidising properties	: SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Block 2	Not available.

Particle characteristics

Median particle size	: SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	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 Indexing Block 1	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.
	SureSelect Block 2	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: SureSelect Hyb 3	The product is stable.
	SureSelect Indexing Block 1	The product is stable.
	SureSelect RNase Block	The product is stable.
	SureSelect Block 2	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 Indexing Block 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Block 2	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	No specific data.

SECTION 10: Stability and reactivity

10.5 Incompatible materials	: SureSelect Hyb 3	May react or be incompatible with oxidising materials.
	SureSelect Indexing Block 1	May react or be incompatible with oxidising materials.
	SureSelect RNase Block	May react or be incompatible with oxidising materials.
	SureSelect Block 2	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 Indexing Block 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Block 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

<u>Acute toxicity</u>		
Not available.		
<u>Acute toxicity estimates</u>		
N/A		
<u>Irritation/Corrosion</u>		
Conclusion/Summary	:	Not available.
<u>Sensitiser</u>		
Conclusion/Summary	:	Not available.
<u>Mutagenicity</u>		
Conclusion/Summary	:	Not available.
<u>Carcinogenicity</u>		
Conclusion/Summary	:	Not available.
<u>Reproductive toxicity</u>		
Conclusion/Summary	:	Not available.
<u>Teratogenicity</u>		
Conclusion/Summary	:	Not available.
<u>Specific target organ toxicity (single exposure)</u>		
Not available.		
<u>Specific target organ toxicity (repeated exposure)</u>		
Not available.		
<u>Aspiration hazard</u>		
Not available.		
Information on likely routes of exposure	: SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	SureSelect Block 2	Not available.
<u>Potential acute health effects</u>		
Inhalation	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Ingestion	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
Skin contact	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
Eye contact	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	No specific data.
Ingestion	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	No specific data.
Skin contact	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	No specific data.
Eye contact	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Block 2	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 effects

Conclusion/Summary : Not available.

General	: SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Carcinogenicity	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
Mutagenicity	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
Reproductive toxicity	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Indexing Block 1	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

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

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. 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****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

No listed substance

Label	: SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	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	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory : Not determined.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of revision

: 29/02/2024

Date of previous issue

: No previous validation

Version

: 1

Notice to reader

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