

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	: <input checked="" type="checkbox"/> Analytical reagent.
	<input checked="" type="checkbox"/> 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 LDA UK Ltd.
 5500 Lakeside Cheadle Royal Business Park,
 Cheadle, Cheshire, SK8 3GR
 United Kingdom
 Tel: +44 (0) 345 712 5292
e-mail address of person 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.

<input checked="" type="checkbox"/> SureSelect Hyb 3	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect Indexing Block 1	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect RNase Block	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect Block 2	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 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%
	 SureSelect Block 2	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.
Hazard statements	 SureSelect RNase Block	No signal word.
	 SureSelect Block 2	No signal word.
Precautionary statements	 SureSelect Hyb 3	No known significant effects or critical hazards.
	 SureSelect Indexing Block 1	No known significant effects or critical hazards.
Prevention	 SureSelect RNase Block	No known significant effects or critical hazards.
	 SureSelect Block 2	No known significant effects or critical hazards.
Response	 SureSelect Hyb 3	Not applicable.
	 SureSelect Indexing Block 1	Not applicable.
Storage	 SureSelect RNase Block	Not applicable.
	 SureSelect Block 2	Not applicable.
Disposal	 SureSelect Hyb 3	Not applicable.
	 SureSelect Indexing Block 1	Not applicable.
Supplemental label elements	 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.
Special packaging requirements	 SureSelect RNase Block	Safety data sheet available on request.
	 SureSelect Block 2	Not applicable.


SECTION 2: Hazards identification


Containers to be fitted with child-resistant fastenings	 SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.
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	Type
 SureSelect RNase Block Glycerol	UK (GB) REACH #: Annex V 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.

SECTION 4: First aid measures

Inhalation

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.
: 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.

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

Over-exposure signs/symptoms

SECTION 4: First aid measures

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.

SECTION 5: Firefighting measures

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 No specific data.
	SureSelect Indexing Block 1	
	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 protective actions 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.
	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.
	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.
	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.

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.

SECTION 6: Accidental release measures**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 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.

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.
	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

SECTION 7: Handling and storage

SureSelect Block 2

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. 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 Industrial applications, Professional applications.
- : SureSelect Indexing Block 1 Industrial applications, Professional applications.
- : SureSelect RNase Block Industrial applications, Professional applications.
- : SureSelect Block 2 Industrial applications, Professional applications.

Industrial sector specific solutions

- : SureSelect Hyb 3 Not available.
- : SureSelect Indexing Block 1 Not available.
- : SureSelect RNase Block Not available.
- : SureSelect Block 2 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	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

- : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

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.

SECTION 8: Exposure controls/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: 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


SECTION 9: Physical and chemical properties

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.


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


Auto-ignition temperature	Ingredient name		°C	Method
	 SureSelect RNase Block			
	glycerol		370	-

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)	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 :

SECTION 9: Physical and chemical properties

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	-

Evaporation rate	: SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Block 2	Not available.
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.
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**Acute toxicity


Product/ingredient name	Result	Species	Dose	Exposure
 SureSelect RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
 SureSelect RNase Block Glycerol	12600	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
 SureSelect RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary : Not available.**Sensitiser****Conclusion/Summary** : Not available.**Mutagenicity****Conclusion/Summary** : Not available.**Carcinogenicity****Conclusion/Summary** : Not available.**Reproductive toxicity****Conclusion/Summary** : Not available.**Teratogenicity****Conclusion/Summary** : Not available.**Specific target organ toxicity (single exposure)**


Not available.

Specific target organ toxicity (repeated exposure)


Not available.


Aspiration hazard


Not available.

Information on likely routes of exposure :  SureSelect Hyb 3 Not available.
 SureSelect Indexing Not available.
 Block 1
 SureSelect RNase Block Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
 SureSelect Block 2 Not available.

Potential acute health effects

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

SECTION 11: Toxicological information

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 exposureShort 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.
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.
	SureSelect Block 2	No known significant effects or critical hazards.
Mutagenicity	: 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

Reproductive toxicity	<input checked="" type="checkbox"/> 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.
Other information	<input checked="" type="checkbox"/> SureSelect RNase Block	Adverse symptoms may include the following: May cause skin sensitisation.

SECTION 12: Ecological information**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> SureSelect RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary : Not available.**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
<input checked="" type="checkbox"/> SureSelect RNase Block Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Conclusion/Summary : Not available.**12.3 Bioaccumulative potential**

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> SureSelect RNase Block Glycerol	-1.76	-	Low

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 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

SECTION 13: Disposal considerations

- 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	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- 14.7 Transport in bulk according to IMO instruments** : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

No listed substance

SECTION 15: Regulatory information

Label	: SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : All components are active or exempted.

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications

SECTION 16: Other information

Not applicable.

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