

SAFETY DATA SHEET

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

Section 1. Identification

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

Validation date : 2/29/2024

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

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification


2.1 Classification of the substance or mixture

<p>OSHA/HCS status : SureSelect Hyb 3</p> <p>SureSelect Indexing Block 1</p> <p>SureSelect RNase Block</p> <p>SureSelect Block 2</p>	<p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p> <p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p> <p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
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Classification of the substance or mixture

SureSelect RNase Block
 H320 EYE IRRITATION - Category 2B

Section 2. Hazards identification


	 SureSelect Hyb 3	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 3%
2.2 GHS label elements		
Signal word	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	No signal word. No signal word. Warning No signal word.
Hazard statements	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	No known significant effects or critical hazards. No known significant effects or critical hazards. H320 - Causes eye irritation. No known significant effects or critical hazards.
Precautionary statements		
Prevention	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	Not applicable. Not applicable. Not applicable. Not applicable.
Response	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block	Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	None known. None known. None known. None known.

2.3 Other hazards

Hazards not otherwise classified	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	None known. None known. None known. None known.
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Section 3. Composition/information on ingredients

Substance/mixture	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	Mixture Mixture Mixture Mixture
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Ingredient name	%	CAS number
 SureSelect RNase Block		
Glycerol	≥50 - ≤75	56-81-5

Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

Section 4. First aid measures

4.1 Description of necessary 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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	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.
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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	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

Section 4. First aid measures

Ingestion

SureSelect Block 2

: SureSelect Hyb 3

SureSelect Indexing Block 1

SureSelect RNase Block

SureSelect Block 2

medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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.

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.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: SureSelect Hyb 3
SureSelect Indexing Block 1
SureSelect RNase Block
SureSelect Block 2

No known significant effects or critical hazards.
No known significant effects or critical hazards.
Causes eye irritation.

Inhalation

: SureSelect Hyb 3
SureSelect Indexing Block 1
SureSelect RNase Block
SureSelect Block 2

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

Skin contact

: SureSelect Hyb 3
SureSelect Indexing Block 1
SureSelect RNase Block
SureSelect Block 2

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

Ingestion

: SureSelect Hyb 3
SureSelect Indexing Block 1
SureSelect RNase Block
SureSelect Block 2

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

Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact	: SureSelect Hyb 3	No specific data.
	SureSelect Indexing Block 1	No specific data.
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
	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 immediate medical attention and special treatment needed, if necessary

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.
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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SureSelect Block 2	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

: SureSelect Hyb 3
SureSelect Indexing Block 1
SureSelect RNase Block
SureSelect Block 2

Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: SureSelect Hyb 3
SureSelect Indexing Block 1
SureSelect RNase Block
SureSelect Block 2

None known.
None known.
None known.
None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: SureSelect Hyb 3
SureSelect Indexing Block 1
SureSelect RNase Block
SureSelect Block 2

In a fire or if heated, a pressure increase will occur and the container may burst.
In a fire or if heated, a pressure increase will occur and the container may burst.
In a fire or if heated, a pressure increase will occur and the container may burst.
In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: SureSelect Hyb 3

SureSelect Indexing Block 1
SureSelect RNase Block

SureSelect Block 2

Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
halogenated compounds
carbonyl halides
No specific data.
Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: SureSelect Hyb 3

SureSelect Indexing Block 1

SureSelect RNase Block

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.
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.
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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.

Section 5. Fire-fighting measures

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 spilled 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 spilled 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	: SureSelect Hyb 3	If specialized 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 specialized 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 specialized 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 specialized clothing is required to deal with the

Section 6. Accidental release measures

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 spilled 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 spilled 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 spilled 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 spilled 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 materials 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.

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	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

: 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 unlabeled 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

Section 7. Handling and storage

SureSelect RNase Block

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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 unlabeled 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 unlabeled 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

Ingredient name	Exposure limits
 SureSelect RNase Block Glycerol	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust</p> <p>OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p> <p>CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: respirable fraction</p>

Section 8. Exposure controls/personal protection

TWA: 10 mg/m³ 8 hours. Form: total dust

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

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

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.

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: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state

SureSelect Hyb 3	Liquid.
SureSelect Indexing Block 1	Liquid.
SureSelect RNase Block	Liquid.
SureSelect Block 2	Liquid.

Color

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 and safety characteristics





Odor	SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Block 2	Not available.
Odor threshold	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.
Melting point/freezing point	SureSelect Hyb 3	0°C (32°F)
	SureSelect Indexing Block 1	0°C (32°F)
	SureSelect RNase Block	Not available.
	SureSelect Block 2	0°C (32°F)
Boiling point, initial boiling point, and boiling range	SureSelect Hyb 3	100°C (212°F)
	SureSelect Indexing Block 1	100°C (212°F)
	SureSelect RNase Block	Not available.
	SureSelect Block 2	100°C (212°F)

Flash point		Closed cup			Open cup		
	Ingredient name	°C	°F	Method	°C	°F	Method
	SureSelect RNase Block						
	Glycerol	-	-	-	177	350.6	-

Evaporation rate	SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Block 2	Not available.
Flammability	SureSelect Hyb 3	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Block 2	Not applicable.
Lower and upper explosion limit/flammability limit	SureSelect Hyb 3	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Block 2	Not available.

Vapor pressure		Vapor Pressure at 20°C			Vapor pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	SureSelect Hyb 3						
	water	17.5	2.3	-	92.258	12.3	-
	SureSelect Indexing Block 1						
	water	17.5	2.3	-	92.258	12.3	-
	SureSelect RNase Block						
	water	17.5	2.3	-	92.258	12.3	-

Section 9. Physical and chemical properties and safety characteristics

	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	SureSelect Block 2						
	water	17.5	2.3	-	92.258	12.3	-
Relative vapor density	: 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.					
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.					
Auto-ignition temperature	: Ingredient name	°C	°F	Method			
	 SureSelect RNase Block						
	Glycerol	370	698	-			
Decomposition temperature	: SureSelect Hyb 3	Not available.					
	SureSelect Indexing Block 1	Not available.					
	SureSelect RNase Block	Not available.					
	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.					
<u>Particle characteristics</u>							
Median particle size	:  SureSelect Hyb 3	Not applicable.					
	SureSelect Indexing Block 1	Not applicable.					
	SureSelect RNase Block	Not applicable.					
	SureSelect Block 2	Not applicable.					

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.				

Section 10. Stability and reactivity

10.2 Chemical stability	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	No specific data. No specific data. No specific data. No specific data.
10.5 Incompatible materials	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

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	-

Section 11. Toxicological information

Sensitization

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 the likely routes of exposure	<p>: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2</p>	<p>Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available.</p>
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Potential acute health effects

Eye contact	<p>: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2</p>	<p>No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards.</p>
Inhalation	<p>: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2</p>	<p>No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.</p>
Skin contact	<p>: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2</p>	<p>No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.</p>
Ingestion	<p>: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2</p>	<p>No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.</p>

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	<p>: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2</p>	<p>No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data.</p>
Inhalation	<p>: SureSelect Hyb 3 SureSelect Indexing Block 1 SureSelect RNase Block SureSelect Block 2</p>	<p>No specific data. No specific data. No specific data. No specific data.</p>

Section 11. Toxicological information

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.

Delayed and immediate effects and also 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

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.
Reproductive toxicity	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.

Numerical measures of toxicity

Acute toxicity estimates

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

Other information : SureSelect RNase Block Adverse symptoms may include the following: May cause skin sensitization.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect RNase Block Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect RNase Block Glycerol	-1.76	-	Low

12.4 Mobility in soil

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

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
Clean Water Act (CWA) 311: Potassium hydroxide; Edetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : SureSelect Hyb 3 Not applicable.
 SureSelect Indexing Block 1 Not applicable.
 SureSelect RNase Block EYE IRRITATION - Category 2B
 SureSelect Block 2 Not applicable.

Composition/information on ingredients

Name	%	Classification
SureSelect Hyb 3 .alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl, polymer with 2-(chloromethyl)oxirane	≤3	COMBUSTIBLE DUSTS
2-Pyrrolidinone, 1-ethenyl-, homopolymer	≤3	COMBUSTIBLE DUSTS
SureSelect RNase Block Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B

State regulations

Massachusetts : The following components are listed: GLYCERINE MIST

New York : None of the components are listed.

Section 15. Regulatory information

- New Jersey** : The following components are listed: GLYCERIN
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

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.
- 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.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
 SureSelect RNase Block EYE IRRITATION - Category 2B	Calculation method

History

- Date of issue/Date of revision** : 02/29/2024
- Date of previous issue** : 02/25/2021
- Version** : 4

Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
UN = United Nations

📌 Indicates information that has changed from previously issued version.

Notice to reader

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