

Material Safety Data Sheet

SureSelect XT Automated Hybridization Kit AB - Box #2 - 96 Reactions

1. Product and company identification

Product name	: SureSelect XT Automated Hybridization Kit AB - Box #2 - 96 Reactions
Material uses	: Analytical reagent.
	SureSelect RNase Block 0.07 ml
	SureSelect Hyb #3 0.4 ml
	SureSelect Block #2 0.3 ml
	SureSelect Indexing Block #1 0.3 ml
	SureSelect AB Indexing Block #3 0.075 ml
Supplier/Manufacturer	: Agilent Technologies, Inc. 1834 State Highway 71 West Cedar Creek, TX 78612 800-227-9770
Part No. (Chemical Kit)	: 5190-3738
Part No.	: SureSelect RNase Block 5972-3700
	SureSelect Hyb #3 5972-3696
	SureSelect Block #2 5972-3698
	SureSelect Indexing Block #1 5972-3697
	SureSelect AB Indexing Block #3 5972-3726
Validation date	: 06/30/2013
<u>In case of emergency</u>	: CHEMTREC®: 1-800-424-9300

2. Hazards identification

Physical state	: SureSelect RNase Block Liquid.
	SureSelect Hyb #3 Liquid.
	SureSelect Block #2 Liquid.
	SureSelect Indexing Block #1 Liquid.
	SureSelect AB Indexing Block #3 Liquid.
Odor	: SureSelect RNase Block Not available.
	SureSelect Hyb #3 Not available.
	SureSelect Block #2 Not available.
	SureSelect Indexing Block #1 Not available.
	SureSelect AB Indexing Block #3 Not available.
OSHA/HCS status	: SureSelect RNase Block This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	SureSelect Hyb #3 While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
	SureSelect Block #2 While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
	SureSelect Indexing Block #1 While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

2. Hazards identification

SureSelect AB Indexing Block #3 While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Emergency overview

Signal word

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

Hazard statements

: SureSelect RNase Block

SureSelect Hyb #3

SureSelect Block #2

SureSelect Indexing Block #1

SureSelect AB Indexing Block #3

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

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Precautions

: SureSelect RNase Block

SureSelect Hyb #3

SureSelect Block #2

SureSelect Indexing Block #1

SureSelect AB Indexing Block #3

Avoid breathing vapor or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

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No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

Routes of entry

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

Not available.

Not available.

Not available.

Not available.

Not available.

Potential acute health effects

2. Hazards identification

Inhalation	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Slightly irritating to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	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. No known significant effects or critical hazards.
Skin	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Slightly irritating to the skin. 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.
Eyes	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Slightly irritating to the eyes. 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.
<u>Potential chronic health effects</u>		
Chronic effects	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Contains material that may cause target organ damage, based on animal data. 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.
Carcinogenicity	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	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. No known significant effects or critical hazards.
Mutagenicity	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	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. No known significant effects or critical hazards.
Teratogenicity	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	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. No known significant effects or critical hazards.
Developmental effects	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	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. No known significant effects or critical hazards.
Fertility effects	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	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. No known significant effects or critical hazards.
Target organs	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea. Not available. Not available. Not available. Not available.

2. Hazards identification

Over-exposure signs/symptoms

Inhalation	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. No specific data. No specific data. No specific data.
Ingestion	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	No specific data. No specific data. No specific data. No specific data. No specific data.
Skin	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Adverse symptoms may include the following: irritation redness No specific data. No specific data. No specific data. No specific data.
Eyes	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. No specific data. No specific data.
Medical conditions aggravated by over-exposure	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product. None known. None known. None known. None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
SureSelect RNase Block Glycerol	56-81-5	30 - 60

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

4. First aid measures

Eye contact	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur. Check for and remove any contact lenses.
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4. First aid measures

		Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	SureSelect Indexing Block #1	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	SureSelect AB Indexing Block #3	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
Skin contact	: SureSelect RNase Block	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
	SureSelect Hyb #3	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
	SureSelect Block #2	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
	SureSelect Indexing Block #1	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
	SureSelect AB Indexing Block #3	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
Inhalation	: SureSelect RNase Block	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
	SureSelect Hyb #3	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
	SureSelect Block #2	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
	SureSelect Indexing Block #1	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest

4. First aid measures

	SureSelect AB Indexing Block #3	occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur. Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
Ingestion	: SureSelect RNase Block	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
	SureSelect Hyb #3	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
	SureSelect Block #2	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
	SureSelect Indexing Block #1	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
	SureSelect AB Indexing Block #3	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Protection of first-aiders	: 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 Hyb #3	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.
	SureSelect Indexing Block #1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect AB Indexing Block #3	No action shall be taken involving any personal risk or without suitable training.
Notes to physician	: SureSelect RNase Block	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	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 Block #2	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Indexing Block #1	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect AB Indexing Block #3	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	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. In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media		
Suitable	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	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. Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	None known. None known. None known. None known. None known.
Special exposure hazards	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	: SureSelect RNase Block SureSelect Hyb #3 SureSelect Block #2 SureSelect Indexing Block #1 SureSelect AB Indexing Block #3	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds No specific data. No specific data. No specific data.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

6. Accidental release measures

Personal precautions	: 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
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6. Accidental release measures

SureSelect Hyb #3	protective equipment (see Section 8). 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 (see Section 8).
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 (see Section 8).
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 (see Section 8).
SureSelect AB Indexing Block #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 (see Section 8).

Environmental precautions : SureSelect RNase Block

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 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 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).
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 AB Indexing Block #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).

Methods for cleaning up : SureSelect RNase Block

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 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 Block #2	Stop leak if without risk. Move containers from spill

6. Accidental release measures

SureSelect Indexing Block #1

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.

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 AB Indexing Block #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.

7. Handling and storage

Handling

: SureSelect RNase Block

Put on appropriate personal protective equipment (see Section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 Hyb #3

Put on appropriate personal protective equipment (see Section 8). 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.

SureSelect Block #2

Put on appropriate personal protective equipment (see Section 8). 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.

SureSelect Indexing Block #1

Put on appropriate personal protective equipment (see Section 8). 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.

SureSelect AB Indexing Block #3

Put on appropriate personal protective equipment (see Section 8). 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.

7. Handling and storage

Storage

: SureSelect RNase Block

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

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.

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.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

SureSelect AB Indexing Block #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.

8. Exposure controls/personal protection

Ingredient	Exposure limits
SureSelect RNase Block Glycerol	<p>ACGIH TLV (United States, 3/2012). TWA: 10 mg/m³ 8 hours. Form: Mist</p> <p>OSHA PEL (United States, 6/2010). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p> <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>

8. Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : 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.
- Eyes** : 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 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** : 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.
- 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.
- Other protection** : Not available.

9. Physical and chemical properties

- Physical state** : SureSelect RNase Block Liquid.
 SureSelect Hyb #3 Liquid.
 SureSelect Block #2 Liquid.
 SureSelect Indexing Block #1 Liquid.
 SureSelect AB Indexing Block #3 Liquid.
- Flash point** : SureSelect RNase Block Not available.
 SureSelect Hyb #3 Not available.
 SureSelect Block #2 Not available.
 SureSelect Indexing Block #1 Not available.
 SureSelect AB Indexing Block #3 Not available.
- Auto-ignition temperature** : SureSelect RNase Block Not available.
 SureSelect Hyb #3 Not available.
 SureSelect Block #2 Not available.
 SureSelect Indexing Block #1 Not available.
 SureSelect AB Indexing Block #3 Not available.

9. Physical and chemical properties

Flammable limits	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Color	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Odor	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
pH	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Boiling/condensation point	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	100°C (212°F)
	SureSelect Block #2	100°C (212°F)
	SureSelect Indexing Block #1	100°C (212°F)
	SureSelect AB Indexing Block #3	100°C (212°F)
Melting/freezing point	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	0°C (32°F)
	SureSelect Block #2	0°C (32°F)
	SureSelect Indexing Block #1	0°C (32°F)
	SureSelect AB Indexing Block #3	0°C (32°F)
Specific gravity	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Vapor pressure	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Vapor density	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Volatility	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Odor threshold	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Evaporation rate	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.

9. Physical and chemical properties

Viscosity	: SureSelect RNase Block	Not available.
	SureSelect Hyb #3	Not available.
	SureSelect Block #2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect AB Indexing Block #3	Not available.
Solubility	: SureSelect RNase Block	Soluble in the following materials: cold water and hot water.
	SureSelect Hyb #3	Easily soluble in the following materials: cold water and hot water.
	SureSelect Block #2	Easily soluble in the following materials: cold water and hot water.
	SureSelect Indexing Block #1	Easily soluble in the following materials: cold water and hot water.
	SureSelect AB Indexing Block #3	Easily soluble in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability	: SureSelect RNase Block	The product is stable.
	SureSelect Hyb #3	The product is stable.
	SureSelect Block #2	The product is stable.
	SureSelect Indexing Block #1	The product is stable.
	SureSelect AB Indexing Block #3	The product is stable.
Conditions to avoid	: SureSelect RNase Block	No specific data.
	SureSelect Hyb #3	No specific data.
	SureSelect Block #2	No specific data.
	SureSelect Indexing Block #1	No specific data.
	SureSelect AB Indexing Block #3	No specific data.
Materials to avoid	: SureSelect RNase Block	No specific data.
	SureSelect Hyb #3	No specific data.
	SureSelect Block #2	No specific data.
	SureSelect Indexing Block #1	No specific data.
	SureSelect AB Indexing Block #3	No specific data.
Hazardous decomposition products	: SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Hyb #3	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.
	SureSelect Indexing Block #1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect AB Indexing Block #3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Hyb #3	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.
	SureSelect Indexing Block #1	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect AB Indexing Block #3	Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

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 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitizer

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Other adverse symptoms : SureSelect RNase Block Not available.
 SureSelect Hyb #3 Not available.
 SureSelect Block #2 Not available.
 SureSelect Indexing Block #1 Not available.
 SureSelect AB Indexing Block #3 Not available.

12. Ecological information

Ecotoxicity : May cause long-term adverse effects in the aquatic environment.

Partition coefficient: n-octanol/water : SureSelect RNase Block Not available.
 SureSelect Hyb #3 Not available.
 SureSelect Block #2 Not available.
 SureSelect Indexing Block #1 Not available.
 SureSelect AB Indexing Block #3 Not available.

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

13. Disposal considerations

Waste disposal : 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.

14. Transport information

Regulatory information

DOT / IMDG / IATA / : Not regulated.

15. Regulatory information

HCS Classification : SureSelect RNase Block Target organ effects
 SureSelect Hyb #3 Not regulated.
 SureSelect Block #2 Not regulated.
 SureSelect Indexing Block #1 Not regulated.
 SureSelect AB Indexing Block #3 Not regulated.

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

United States inventory (TSCA 8b): Not determined.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Delayed (chronic) health hazard

Clean Water Act (CWA) 311: 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

State regulations

Massachusetts : The following components are listed: GLYCERINE MIST

New York : None of the components are listed.

New Jersey : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL

Pennsylvania : The following components are listed: 1,2,3-PROPANETRIOL

California Prop. 65

No products were found.

16. Other information

Label requirements	: SureSelect RNase Block	MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
	SureSelect Hyb #3	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
	SureSelect Block #2	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
	SureSelect Indexing Block #1	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
	SureSelect AB Indexing Block #3	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

16. Other information

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Date of previous issue : 05/30/2011.

Version : 2

✔ Indicates information that has changed from previously issued version.

Notice to reader

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