

SAFETY DATA SHEET

SureSelect XT Fast Target Enrichment Kit-ILM Hyb Module Box 2

Section 1. Identification

| | | |
|---|---|-----------------------|
| Product identifier | : SureSelect XT Fast Target Enrichment Kit-ILM Hyb Module Box 2 | |
| Part no. (chemical kit) | : 5190-8836, 5190-8839 | |
| Part no. | SureSelect Fast Blocker Mix | 5190-8835 / 5190-8838 |
| | SureSelect Fast Hybridization Buffer | 5190-7327 / 5190-7330 |
| | SureSelect RNase Block | 5190-4383 / 5972-3700 |
| Material uses | : Analytical reagent. | |
| | SureSelect Fast Blocker Mix | 0.08 ml - 0.64 ml |
| | SureSelect Fast Hybridization Buffer | 0.45 ml - 0.918 ml |
| | SureSelect RNase Block | 0.016 ml - 0.08 ml |
| Supplier/Manufacturer | : Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770 | |
| Emergency telephone number (with hours of operation) | : CHEMTREC®: 1-800-424-9300 | |

Section 2. Hazard identification

Classification of the substance or mixture

SureSelect RNase Block

H320

EYE IRRITATION - Category 2B

GHS label elements

Signal word

| | |
|--------------------------------------|-----------------|
| SureSelect Fast Blocker Mix | No signal word. |
| SureSelect Fast Hybridization Buffer | No signal word. |
| SureSelect RNase Block | Warning |

Hazard statements

| | |
|--------------------------------------|---|
| SureSelect Fast Blocker Mix | No known significant effects or critical hazards. |
| SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| SureSelect RNase Block | H320 - Causes eye irritation. |

Precautionary statements

Prevention

| | |
|--------------------------------------|--|
| SureSelect Fast Blocker Mix | Not applicable. |
| SureSelect Fast Hybridization Buffer | Not applicable. |
| SureSelect RNase Block | P264 - Wash hands thoroughly after handling. |

Response

| | |
|--------------------------------------|---|
| SureSelect Fast Blocker Mix | Not applicable. |
| SureSelect Fast Hybridization Buffer | Not applicable. |
| SureSelect RNase Block | P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. |

Section 2. Hazard identification

| | | |
|--|-------------------------------|---|
| Storage | : SureSelect Fast Blocker Mix | Not applicable. |
| | SureSelect Fast | Not applicable. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not applicable. |
| Disposal | : SureSelect Fast Blocker Mix | Not applicable. |
| | SureSelect Fast | Not applicable. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not applicable. |
| Supplemental label elements | : SureSelect Fast Blocker Mix | None known. |
| | SureSelect Fast | None known. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | None known. |
| | SureSelect Fast | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10% |
| | Hybridization Buffer | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% |
| | | Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10% |
| | SureSelect RNase Block | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60% |
| | SureSelect Fast | Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6% |
| | Hybridization Buffer | |
| Other hazards which do not result in classification | : SureSelect Fast Blocker Mix | None known. |
| | SureSelect Fast | None known. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | None known. |

Section 3. Composition/information on ingredients

| | | |
|--------------------------|-------------------------------|---------|
| Substance/mixture | : SureSelect Fast Blocker Mix | Mixture |
| | SureSelect Fast | Mixture |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Mixture |

| Ingredient name | % (w/w) | CAS number |
|--|-----------|------------|
| SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | ≤3 | 1185-53-1 |
| SureSelect RNase Block Glycerol | ≥50 - ≤75 | 56-81-5 |

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.

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

Section 4. First-aid measures

Description of necessary first aid measures

| | | |
|--------------------|-------------------------------|---|
| Eye contact | : SureSelect Fast Blocker Mix | 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 Fast | 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. |
| | Hybridization Buffer | 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, |

Section 4. First-aid measures

| | | |
|---------------------|--------------------------------------|--|
| | | 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. |
| Inhalation | : SureSelect Fast Blocker Mix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureSelect Fast Hybridization Buffer | 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 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. |
| Skin contact | : SureSelect Fast Blocker Mix | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureSelect Fast Hybridization Buffer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureSelect RNase Block | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : SureSelect Fast Blocker Mix | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 Fast Hybridization Buffer | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 |

Section 4. First-aid measures

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

| | | |
|---------------------|--|---|
| Eye contact | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. |
| Inhalation | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Skin contact | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Ingestion | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| | | |
|---------------------|--|--|
| Eye contact | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness |
| Inhalation | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No specific data. No specific data. No specific data. |
| Skin contact | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No specific data. No specific data. No specific data. |
| Ingestion | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No specific data. No specific data. No specific data. |

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

| | | |
|---------------------------|--|---|
| Notes to physician | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. Treat symptomatically. Contact poison treatment |
|---------------------------|--|---|

Section 4. First-aid measures

| | | |
|-----------------------------------|--|--|
| | | specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No specific treatment. No specific treatment. No specific treatment. |
| Protection of first-aiders | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

| | | |
|---|--|---|
| Suitable extinguishing media | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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 Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | None known. None known. None known. |
| Specific hazards arising from the chemical | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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 Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide |

Section 5. Fire-fighting measures

| | | |
|---|--------------------------------------|---|
| Special protective actions for fire-fighters | : SureSelect Fast Blocker Mix | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Fast Hybridization Buffer | 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. |
| Special protective equipment for fire-fighters | : SureSelect Fast Blocker Mix | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | SureSelect Fast Hybridization Buffer | 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. |

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | | |
|------------------------------------|--------------------------------------|--|
| For non-emergency personnel | : SureSelect Fast Blocker Mix | 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 Fast Hybridization Buffer | 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. |
| For emergency responders | : SureSelect Fast Blocker Mix | 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 Fast Hybridization Buffer | 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 |

Section 6. Accidental release measures

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

| | | |
|----------------------------------|--------------------------------------|---|
| Environmental precautions | : SureSelect Fast Blocker Mix | 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 Fast Hybridization Buffer | 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). |

Methods and materials for containment and cleaning up

| | | |
|--------------------------------|--------------------------------------|---|
| Methods for cleaning up | : SureSelect Fast Blocker Mix | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | SureSelect Fast Hybridization Buffer | 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. |

Section 7. Handling and storage

Precautions for safe handling

| | | |
|----------------------------|--------------------------------------|---|
| Protective measures | : SureSelect Fast Blocker Mix | Put on appropriate personal protective equipment (see Section 8). |
| | SureSelect Fast Hybridization Buffer | 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. |

Section 7. Handling and storage

| | | |
|---|--------------------------------------|--|
| Advice on general occupational hygiene | : SureSelect Fast Blocker Mix | 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 Fast Hybridization Buffer | 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. |
| Conditions for safe storage, including any incompatibilities | : SureSelect Fast Blocker Mix | 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 Fast Hybridization Buffer | 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 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. See Section 10 for incompatible materials before handling or use. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|------------------------------------|--|
| SureSelect RNase Block Glycerol | <p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist</p> <p>CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m³ 8 hours. Form: mist</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist</p> <p>CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m³ 8 hours. Form: mist</p> <p>CA British Columbia Provincial (Canada, 5/2019). TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist</p> |

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.

Section 8. Exposure controls/personal protection

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

Appearance

| | | |
|---|-------------------------------|-----------------|
| Physical state | : SureSelect Fast Blocker Mix | Liquid. |
| | SureSelect Fast | Liquid. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Liquid. |
| Color | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Odor | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Odor threshold | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| pH | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | 7.6 |
| Melting point | : SureSelect Fast Blocker Mix | 0°C (32°F) |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Boiling point | : SureSelect Fast Blocker Mix | 100°C (212°F) |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Flash point | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Evaporation rate | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Flammability (solid, gas) | : SureSelect Fast Blocker Mix | Not applicable. |
| | SureSelect Fast | Not applicable. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not applicable. |
| Lower and upper explosive (flammable) limits | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Vapor pressure | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |

Section 9. Physical and chemical properties

| | | |
|---|-------------------------------|--|
| Vapor density | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Relative density | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Solubility | : SureSelect Fast Blocker Mix | Easily soluble in the following materials: cold water and hot water. |
| | SureSelect Fast | Easily soluble in the following materials: cold water and hot water. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Auto-ignition temperature | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Decomposition temperature | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |
| Viscosity | : SureSelect Fast Blocker Mix | Not available. |
| | SureSelect Fast | Not available. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Not available. |

Section 10. Stability and reactivity

| | | |
|---|-------------------------------|--|
| Reactivity | : SureSelect Fast Blocker Mix | No specific test data related to reactivity available for this product or its ingredients. |
| | SureSelect Fast | No specific test data related to reactivity available for this product or its ingredients. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : SureSelect Fast Blocker Mix | The product is stable. |
| | SureSelect Fast | The product is stable. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | The product is stable. |
| Possibility of hazardous reactions | : SureSelect Fast Blocker Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | SureSelect Fast | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : SureSelect Fast Blocker Mix | No specific data. |
| | SureSelect Fast | No specific data. |
| | Hybridization Buffer | |
| | SureSelect RNase Block | No specific data. |

Section 10. Stability and reactivity

Incompatible materials : SureSelect Fast Blocker Mix May react or be incompatible with oxidizing materials.
 SureSelect Fast May react or be incompatible with oxidizing materials.
 Hybridization Buffer
 SureSelect RNase Block May react or be incompatible with oxidizing materials.

Hazardous decomposition products : SureSelect Fast Blocker Mix Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Fast Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Hybridization Buffer
 SureSelect RNase Block Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

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 | - |

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)

| Name | Category | Route of exposure | Target organs |
|---|------------|-------------------|------------------------------|
| SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | Category 3 | Not applicable. | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure : SureSelect Fast Blocker Mix Not available.
 SureSelect Fast Routes of entry anticipated: Oral, Dermal, Inhalation.
 Hybridization Buffer
 SureSelect RNase Block Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : SureSelect Fast Blocker Mix No known significant effects or critical hazards.
 SureSelect Fast No known significant effects or critical hazards.
 Hybridization Buffer
 SureSelect RNase Block Causes eye irritation.

Inhalation : SureSelect Fast Blocker Mix No known significant effects or critical hazards.
 SureSelect Fast No known significant effects or critical hazards.
 Hybridization Buffer
 SureSelect RNase Block No known significant effects or critical hazards.

Skin contact : SureSelect Fast Blocker Mix No known significant effects or critical hazards.
 SureSelect Fast No known significant effects or critical hazards.
 Hybridization Buffer
 SureSelect RNase Block No known significant effects or critical hazards.

Ingestion : SureSelect Fast Blocker Mix No known significant effects or critical hazards.
 SureSelect Fast No known significant effects or critical hazards.
 Hybridization Buffer
 SureSelect RNase Block No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : SureSelect Fast Blocker Mix No specific data.
 SureSelect Fast No specific data.
 Hybridization Buffer
 SureSelect RNase Block Adverse symptoms may include the following:
 irritation
 watering
 redness

Inhalation : SureSelect Fast Blocker Mix No specific data.
 SureSelect Fast No specific data.
 Hybridization Buffer
 SureSelect RNase Block No specific data.

Skin contact : SureSelect Fast Blocker Mix No specific data.
 SureSelect Fast No specific data.
 Hybridization Buffer
 SureSelect RNase Block No specific data.

Ingestion : SureSelect Fast Blocker Mix No specific data.
 SureSelect Fast No specific data.
 Hybridization Buffer
 SureSelect RNase Block 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.

Section 11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

| | | |
|------------------------------|--|--|
| General | : SureSelect Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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 Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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 Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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 Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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 Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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 Fast Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | 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. |

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 |

Section 12. Ecological information

Toxicity

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

Persistence and degradability

Section 12. Ecological information

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

Bioaccumulative potential

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

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or 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.

Section 14. Transport information

TDG / 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 Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Section 15. Regulatory information

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 | : All components are listed or exempted. |
| Canada | : All components are listed or exempted. |
| China | : All components are listed or exempted. |
| Europe | : Not determined. |
| Japan | : Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted. |
| New Zealand | : All components are listed or exempted. |
| 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 listed or exempted. |
| Viet Nam | : Not determined. |

Section 16. Other information

[History](#)

Date of issue/Date of revision : 12/19/2019

Date of previous issue : 11/17/2017

Version : 3

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- HPR = Hazardous Products Regulations
- 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

[Procedure used to derive the classification](#)

Section 16. Other information

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

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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