

SAFETY DATA SHEET

OneSeq Phased Exome Target Enrichment Box 2, 96 reactions, Part Number 5190-9664

Section 1. Identification

1.1 Product identifier

Product name : OneSeq Phased Exome Target Enrichment Box 2, 96 reactions, Part Number 5190-9664

Part no. (chemical kit) : 5190-9664

Part no. : OneSeq Hyb 3 5190-9661
OneSeq RNase Block 5190-9662
OneSeq Phased Exome Blocker Mix 5190-9663

Validation date : 11/15/2018

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

Material uses : Analytical reagent.

OneSeq Hyb 3	0.4 ml
OneSeq RNase Block	0.08 ml
OneSeq Phased Exome Blocker Mix	1.152 ml

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

OSHA/HCS status : OneSeq Hyb 3

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.

OneSeq RNase Block

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OneSeq Phased Exome Blocker Mix

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.

Classification of the substance or mixture

OneSeq RNase Block
H320

EYE IRRITATION - Category 2B

Section 2. Hazards identification

Ingredients of unknown toxicity	: OneSeq Hyb 3	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10%
	OneSeq RNase Block	Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
	OneSeq Phased Exome Blocker Mix	Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%
	OneSeq Hyb 3	Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60%
	OneSeq RNase Block	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 1%
	OneSeq Phased Exome Blocker Mix	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 1%

2.2 GHS label elements

Signal word	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No signal word. Warning No signal word.
Hazard statements	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. H320 - Causes eye irritation. No known significant effects or critical hazards.
Precautionary statements		
Prevention	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not applicable. P264 - Wash hands thoroughly after handling. Not applicable.
Response	: OneSeq Hyb 3 OneSeq RNase Block	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 attention.
	OneSeq Phased Exome Blocker Mix	Not applicable.
Storage	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not applicable. Not applicable. Not applicable.
Disposal	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not applicable. Not applicable. Not applicable.
Supplemental label elements	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	None known. None known. None known.
2.3 Other hazards		
Hazards not otherwise classified	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: OneSeq Hyb 3	Mixture
	OneSeq RNase Block	Mixture
	OneSeq Phased Exome Blocker Mix	Mixture

Ingredient name	%	CAS number
OneSeq RNase Block		
Glycerol	≥50 - ≤75	56-81-5

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 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

4.1 Description of necessary first aid measures

Eye contact	: OneSeq 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.
	OneSeq 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.
	OneSeq Phased Exome 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.
Inhalation	: OneSeq 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.
	OneSeq 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.
	OneSeq Phased Exome Blocker Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First aid measures

Skin contact	: OneSeq Hyb 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	OneSeq 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.
	OneSeq Phased Exome Blocker Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: OneSeq Hyb 3	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.
	OneSeq 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 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.
	OneSeq Phased Exome 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: OneSeq Hyb 3	No known significant effects or critical hazards.
	OneSeq RNase Block	Causes eye irritation.
	OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards.
Inhalation	: OneSeq Hyb 3	No known significant effects or critical hazards.
	OneSeq RNase Block	No known significant effects or critical hazards.
	OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards.
Skin contact	: OneSeq Hyb 3	No known significant effects or critical hazards.
	OneSeq RNase Block	No known significant effects or critical hazards.
	OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards.

Section 4. First aid measures

Ingestion : OneSeq Hyb 3 No known significant effects or critical hazards.
 OneSeq RNase Block No known significant effects or critical hazards.
 OneSeq Phased Exome Blocker No known significant effects or critical hazards.
 Mix

Over-exposure signs/symptoms

Eye contact : OneSeq Hyb 3 No specific data.
 OneSeq RNase Block Adverse symptoms may include the following:
 irritation
 watering
 redness
 OneSeq Phased Exome Blocker No specific data.
 Mix

Inhalation : OneSeq Hyb 3 No specific data.
 OneSeq RNase Block No specific data.
 OneSeq Phased Exome Blocker No specific data.
 Mix

Skin contact : OneSeq Hyb 3 No specific data.
 OneSeq RNase Block No specific data.
 OneSeq Phased Exome Blocker No specific data.
 Mix

Ingestion : OneSeq Hyb 3 No specific data.
 OneSeq RNase Block No specific data.
 OneSeq Phased Exome Blocker No specific data.
 Mix

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

Notes to physician : OneSeq 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.
 OneSeq RNase Block Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
 OneSeq Phased Exome Blocker Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
 Mix

Specific treatments : OneSeq Hyb 3 No specific treatment.
 OneSeq RNase Block No specific treatment.
 OneSeq Phased Exome Blocker No specific treatment.
 Mix

Protection of first-aiders : OneSeq Hyb 3 No action shall be taken involving any personal risk or without suitable training.
 OneSeq 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.
 OneSeq Phased Exome Blocker No action shall be taken involving any personal risk or without suitable training.
 Mix

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: OneSeq Hyb 3	Use an extinguishing agent suitable for the surrounding fire.
	OneSeq RNase Block	Use an extinguishing agent suitable for the surrounding fire.
	OneSeq Phased Exome Blocker Mix	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: OneSeq Hyb 3	None known.
	OneSeq RNase Block	None known.
	OneSeq Phased Exome Blocker Mix	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: OneSeq Hyb 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	OneSeq RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
	OneSeq Phased Exome Blocker Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: OneSeq Hyb 3	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds carbonyl halides
	OneSeq RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	OneSeq Phased Exome Blocker Mix	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: OneSeq Hyb 3	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	OneSeq 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.
	OneSeq Phased Exome 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.
Special protective equipment for fire-fighters	: OneSeq 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.
	OneSeq 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.
	OneSeq Phased Exome Blocker	Fire-fighters should wear appropriate protective

Section 5. Fire-fighting measures

Mix

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

: OneSeq 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.

OneSeq 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.

OneSeq Phased Exome 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.

For emergency responders

: OneSeq 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". 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". 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".

OneSeq RNase Block

OneSeq Phased Exome Blocker Mix

6.2 Environmental precautions

: OneSeq 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).

OneSeq 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).

OneSeq Phased Exome 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).

Section 6. Accidental release measures

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : OneSeq 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.

OneSeq 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.

OneSeq Phased Exome 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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : OneSeq Hyb 3

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

OneSeq 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.

OneSeq Phased Exome Blocker Mix

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

Advice on general occupational hygiene : OneSeq 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.

OneSeq 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.

OneSeq Phased Exome 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.

Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: OneSeq 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.

OneSeq 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.

OneSeq Phased Exome 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.

7.3 Specific end use(s)

Recommendations

: OneSeq Hyb 3
OneSeq RNase Block
OneSeq Phased Exome Blocker Mix

Industrial applications, Professional applications.
Industrial applications, Professional applications.
Industrial applications, Professional applications.

Industrial sector specific solutions

: OneSeq Hyb 3
OneSeq RNase Block
OneSeq Phased Exome Blocker Mix

Not applicable.
Not applicable.
Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
OneSeq RNase Block Glycerol	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction</p> <p>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</p>

Section 8. Exposure controls/personal protection

TWA: 15 mg/m³ 8 hours. Form: Total dust

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

9.1 Information on basic physical and chemical properties

Appearance

- | | | |
|-----------------------|-----------------------------|----------------|
| Physical state | : OneSeq Hyb 3 | Liquid. |
| | OneSeq RNase Block | Liquid. |
| | OneSeq Phased Exome Blocker | Liquid. |
| | Mix | |
| Color | : OneSeq Hyb 3 | Not available. |
| | OneSeq RNase Block | Not available. |
| | OneSeq Phased Exome Blocker | Not available. |
| | Mix | |

Section 9. Physical and chemical properties

Odor	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Odor threshold	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
pH	: OneSeq Hyb 3	7
	OneSeq RNase Block	7.6
	OneSeq Phased Exome Blocker Mix	7.5
Melting point	: OneSeq Hyb 3	0°C (32°F)
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	0°C (32°F)
Boiling point	: OneSeq Hyb 3	100°C (212°F)
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	100°C (212°F)
Flash point	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Evaporation rate	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Flammability (solid, gas)	: OneSeq Hyb 3	Not applicable.
	OneSeq RNase Block	Not applicable.
	OneSeq Phased Exome Blocker Mix	Not applicable.
Lower and upper explosive (flammable) limits	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Vapor pressure	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Vapor density	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Relative density	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Solubility	: OneSeq Hyb 3	Easily soluble in the following materials: cold water and hot water.
	OneSeq RNase Block	Soluble in the following materials: cold water and hot water.
	OneSeq Phased Exome Blocker Mix	Easily soluble in the following materials: cold water and hot water.

Section 9. Physical and chemical properties

Partition coefficient: n-octanol/water	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Auto-ignition temperature	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Decomposition temperature	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.
Viscosity	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased Exome Blocker Mix	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: OneSeq Hyb 3	No specific test data related to reactivity available for this product or its ingredients.
	OneSeq RNase Block	No specific test data related to reactivity available for this product or its ingredients.
	OneSeq Phased Exome Blocker Mix	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: OneSeq Hyb 3	The product is stable.
	OneSeq RNase Block	The product is stable.
	OneSeq Phased Exome Blocker Mix	The product is stable.
10.3 Possibility of hazardous reactions	: OneSeq Hyb 3	Under normal conditions of storage and use, hazardous reactions will not occur.
	OneSeq RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	OneSeq Phased Exome Blocker Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: OneSeq Hyb 3	No specific data.
	OneSeq RNase Block	No specific data.
	OneSeq Phased Exome Blocker Mix	No specific data.
10.5 Incompatible materials	: OneSeq Hyb 3	May react or be incompatible with oxidizing materials.
	OneSeq RNase Block	May react or be incompatible with oxidizing materials.
	OneSeq Phased Exome Blocker Mix	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

10.6 Hazardous decomposition products	: OneSeq Hyb 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	OneSeq RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	OneSeq Phased Exome Blocker Mix	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
OneSeq RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

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

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	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation.
	OneSeq Phased Exome Blocker Mix	Not available.

Potential acute health effects

Section 11. Toxicological information

Eye contact	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards.
Inhalation	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No specific data. Adverse symptoms may include the following: irritation watering redness No specific data.
Inhalation	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No specific data. No specific data. No specific data.
Skin contact	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No specific data. No specific data. No specific data.
Ingestion	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No specific data. No specific data. 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	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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Section 11. Toxicological information

Carcinogenicity	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	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

Not available.

Section 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

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

Section 12. Ecological information

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 Annex II of MARPOL and the IBC Code : 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: Edetic acid

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

Clean Air Act Section 602 Class I Substances : Not listed

Section 15. Regulatory information

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 : OneSeq Hyb 3 Not applicable.
 OneSeq RNase Block EYE IRRITATION - Category 2B
 OneSeq Phased Exome Blocker Not applicable.
 Mix

Composition/information on ingredients

Name	%	Classification
<input checked="" type="checkbox"/> OneSeq RNase Block Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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.

Europe : All components are listed or exempted.

Japan : **Japan inventory (ENCS)**: Not determined.
 Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

Section 15. Regulatory information

New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

History

Date of issue	: 11/15/2018
Date of previous issue	: 10/20/2016
Version	: 2

Procedure used to derive the classification

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

Indicates information that has changed from previously issued version.

Notice to reader

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