

SAFETY DATA SHEET



OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660

Part no. (chemical kit) : 5190-9660

Part no. : OneSeq Hyb 3 5190-9658
OneSeq RNase Block 5190-9659
OneSeq Phased Exome Blocker Mix 5190-9656

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

Material uses : Analytical reagent.

OneSeq Hyb 3	0.16 ml
OneSeq RNase Block	0.016 ml
OneSeq Phased Exome Blocker Mix	0.144 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : OneSeq Hyb 3 Mixture
OneSeq RNase Block Mixture
OneSeq Phased Exome Blocker Mix Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Ingredients of unknown toxicity : OneSeq Hyb 3 Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
OneSeq RNase Block Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%

Ingredients of unknown ecotoxicity : OneSeq Hyb 3 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1%

See Section 16 for the full text of the H statements declared above.

Date of issue/Date of revision : 15/11/2018

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	No signal word. No signal word. No signal word.
Hazard statements	: 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.

Precautionary statements

Prevention	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not applicable. Not applicable. Not applicable.
Response	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not applicable. Not applicable. 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	Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not applicable. Not applicable. Not applicable.

Special packaging requirements

Tactile warning of danger	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not applicable. Not applicable. Not applicable.
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2.3 Other hazards

Other hazards which do not result in classification	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	None known. None known. None known.
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SECTION 3: Composition/information on ingredients

3.1 Substances : OneSeq Hyb 3 Mixture
 OneSeq RNase Block Mixture
 OneSeq Phased Exome Blocker Mixture
 Mix

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> OneSeq RNase Block Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified. See Section 16 for the full text of the H statements declared above.	[2]

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of 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. Get medical attention if irritation occurs.
 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. Get medical attention if symptoms occur.
 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.

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.
 OneSeq Phased Exome Blocker Mix Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SECTION 4: First aid measures

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 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 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.
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.
	OneSeq Phased Exome Blocker Mix	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye 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.
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.

Over-exposure signs/symptoms

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

SECTION 4: First aid measures

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

4.3 Indication of any immediate medical attention and special treatment needed

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 Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: OneSeq Hyb 3	No specific treatment.
	OneSeq RNase Block	No specific treatment.
	OneSeq Phased Exome Blocker Mix	No specific treatment.

SECTION 5: Firefighting 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

Hazards from the substance or mixture	: 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 combustion 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 precautions 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	Promptly isolate the scene by removing all persons from the

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

Blocker Mix		vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
: 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
OneSeq Phased Exome 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 spilt 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 spilt material. 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 spilt material. Put on appropriate personal protective equipment.

For emergency responders

: OneSeq Hyb 3		If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
OneSeq RNase Block		If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
OneSeq Phased Exome Blocker Mix		If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: OneSeq Hyb 3		Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
OneSeq RNase Block		Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
OneSeq Phased Exome		Avoid dispersal of spilt material and runoff and contact with

SECTION 6: Accidental release measures

Blocker Mix	soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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6.3 Methods and material 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.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: OneSeq Hyb 3	Put on appropriate personal protective equipment (see Section 8).
	OneSeq RNase Block	Put on appropriate personal protective equipment (see Section 8).
	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.

7.2 Conditions for safe storage, including any incompatibilities

Storage :

SECTION 7: Handling and storage

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 unlabelled 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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: OneSeq Hyb 3	Industrial applications, Professional applications.
	: OneSeq RNase Block	Industrial applications, Professional applications.
	: OneSeq Phased Exome Blocker Mix	Industrial applications, Professional applications.
Industrial sector specific solutions	: OneSeq Hyb 3	Not applicable.
	: OneSeq RNase Block	Not applicable.
	: OneSeq Phased Exome Blocker Mix	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
OneSeq RNase Block Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the
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SECTION 8: Exposure controls/personal protection

measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

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

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

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

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

OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660

SECTION 9: Physical and chemical properties

Odour	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	
Odour threshold	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	
pH	: OneSeq Hyb 3	7
	OneSeq RNase Block	7.6
	OneSeq Phased	7.5
	Exome Blocker Mix	
Melting point/freezing point	: OneSeq Hyb 3	0°C
	OneSeq RNase Block	Not available.
	OneSeq Phased	0°C
	Exome Blocker Mix	
Initial boiling point and boiling range	: OneSeq Hyb 3	100°C
	OneSeq RNase Block	Not available.
	OneSeq Phased	100°C
	Exome Blocker Mix	
Flash point	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	
Evaporation rate	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	
Flammability (solid, gas)	: OneSeq Hyb 3	Not applicable.
	OneSeq RNase Block	Not applicable.
	OneSeq Phased	Not applicable.
	Exome Blocker Mix	
Upper/lower flammability or explosive limits	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	
Vapour pressure	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	
Vapour density	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	
Relative density	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	
Solubility(ies)	: 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	Easily soluble in the following materials: cold water and hot water.
	Exome Blocker Mix	
Partition coefficient: n-octanol/water	: OneSeq Hyb 3	Not available.
	OneSeq RNase Block	Not available.
	OneSeq Phased	Not available.
	Exome Blocker Mix	

OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660

SECTION 9: Physical and chemical properties

Auto-ignition temperature	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not available. Not available. Not available.
Decomposition temperature	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not available. Not available. Not available.
Viscosity	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not available. Not available. Not available.
Explosive properties	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not available. Not available. Not available.
Oxidising properties	: OneSeq Hyb 3 OneSeq RNase Block OneSeq Phased Exome Blocker Mix	Not available. Not available. Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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

Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Information on 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

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.
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 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.
Eye 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.

Symptoms related to the physical, chemical and toxicological characteristics

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

SECTION 11: Toxicological information

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

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

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

OneSeq Phased Exome Target Enrichment Box 2, 16 reactions, Part Number 5190-9660

SECTION 12: Ecological information

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

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

14.7 Transport in bulk according to 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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Date of issue/Date of revision : 15/11/2018

14/16

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: OneSeq Hyb 3	Not applicable.
	OneSeq RNase Block	Not applicable.
	OneSeq Phased Exome	Not applicable.
	Blocker Mix	

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

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.
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.

15.2 Chemical safety assessment

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

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Notice to reader

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