

SAFETY DATA SHEET



OneSeq Phased Exome Target Enrichment Box 1, 16 reactions, Part Number
5190-9550

Section 1. Identification

Product identifier	: OneSeq Phased Exome Target Enrichment Box 1, 16 reactions, Part Number 5190-9550
Part No. (Chemical Kit)	: 5190-9550
Part No.	: OneSeq Hyb 1 5190-9544 OneSeq Hyb 2 5190-9545 OneSeq Hyb 4 5190-9546 OneSeq Binding Buffer 5190-9547 OneSeq Wash Buffer 1 5190-9548 OneSeq Wash Buffer 2 5190-9549

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

Analytical reagent.

OneSeq Hyb 1	0.4 ml
OneSeq Hyb 2	1.25 ml
OneSeq Hyb 4	1.25 ml
OneSeq Binding Buffer	13.2 ml
OneSeq Wash Buffer 1	8 ml
OneSeq Wash Buffer 2	24 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: (61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

OneSeq Hyb 1
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

OneSeq Hyb 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

GHS label elements

Hazard pictograms :



Signal word :

OneSeq Hyb 1	WARNING
OneSeq Hyb 2	WARNING
OneSeq Hyb 4	No signal word.
OneSeq Binding Buffer	No signal word.
OneSeq Wash Buffer 1	No signal word.
OneSeq Wash Buffer 2	No signal word.

Section 2. Hazard(s) identification

Hazard statements	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. 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.
Precautionary statements		
Prevention	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. Not applicable. Not applicable. Not applicable. Not applicable.
Response	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	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. 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. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Other hazards which do not result in classification	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	None known. None known. None known. None known. None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	:	OneSeq Hyb 1	Mixture
		OneSeq Hyb 2	Mixture
		OneSeq Hyb 4	Mixture
		OneSeq Binding Buffer	Mixture
		OneSeq Wash Buffer 1	Mixture
		OneSeq Wash Buffer 2	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
OneSeq Hyb 1 Sodium chloride	≥10 - ≤30	7647-14-5
OneSeq Hyb 2 Edetic acid	≥10 - ≤30	60-00-4

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	:	OneSeq Hyb 1	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. Get medical attention.
		OneSeq Hyb 2	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. Get medical attention.
		OneSeq Hyb 4	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 Binding 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.
		OneSeq Wash Buffer 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		OneSeq Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	OneSeq Hyb 1	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 Hyb 2	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,

Section 4. First aid measures

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. 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 Hyb 4 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

OneSeq Binding Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

OneSeq Wash Buffer 1 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

OneSeq Wash Buffer 2 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 1 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 Hyb 2 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 Hyb 4 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

OneSeq Wash Buffer 1 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

OneSeq Wash Buffer 2 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

: OneSeq Hyb 1 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 Hyb 2 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

Section 4. First aid measures

	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 Hyb 4	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 Binding 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.
OneSeq Wash Buffer 1	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 Wash Buffer 2	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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	OneSeq Hyb 1	Causes serious eye irritation.
		OneSeq Hyb 2	Causes serious eye irritation.
		OneSeq Hyb 4	No known significant effects or critical hazards.
		OneSeq Binding Buffer	No known significant effects or critical hazards.
		OneSeq Wash Buffer 1	No known significant effects or critical hazards.
		OneSeq Wash Buffer 2	No known significant effects or critical hazards.
Inhalation	:	OneSeq Hyb 1	No known significant effects or critical hazards.
		OneSeq Hyb 2	No known significant effects or critical hazards.
		OneSeq Hyb 4	No known significant effects or critical hazards.
		OneSeq Binding Buffer	No known significant effects or critical hazards.
		OneSeq Wash Buffer 1	No known significant effects or critical hazards.
		OneSeq Wash Buffer 2	No known significant effects or critical hazards.
Skin contact	:	OneSeq Hyb 1	No known significant effects or critical hazards.
		OneSeq Hyb 2	No known significant effects or critical hazards.
		OneSeq Hyb 4	No known significant effects or critical hazards.
		OneSeq Binding Buffer	No known significant effects or critical hazards.
		OneSeq Wash Buffer 1	No known significant effects or critical hazards.
		OneSeq Wash Buffer 2	No known significant effects or critical hazards.

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Ingestion	:	OneSeq Hyb 1	No known significant effects or critical hazards.
		OneSeq Hyb 2	No known significant effects or critical hazards.
		OneSeq Hyb 4	No known significant effects or critical hazards.
		OneSeq Binding Buffer	No known significant effects or critical hazards.
		OneSeq Wash Buffer 1	No known significant effects or critical hazards.
		OneSeq Wash Buffer 2	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	OneSeq Hyb 1	Adverse symptoms may include the following: pain or irritation watering redness
		OneSeq Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness
		OneSeq Hyb 4	No specific data.
		OneSeq Binding Buffer	No specific data.
		OneSeq Wash Buffer 1	No specific data.
		OneSeq Wash Buffer 2	No specific data.
Inhalation	:	OneSeq Hyb 1	No specific data.
		OneSeq Hyb 2	No specific data.
		OneSeq Hyb 4	No specific data.
		OneSeq Binding Buffer	No specific data.
		OneSeq Wash Buffer 1	No specific data.
		OneSeq Wash Buffer 2	No specific data.
Skin contact	:	OneSeq Hyb 1	No specific data.
		OneSeq Hyb 2	No specific data.
		OneSeq Hyb 4	No specific data.
		OneSeq Binding Buffer	No specific data.
		OneSeq Wash Buffer 1	No specific data.
		OneSeq Wash Buffer 2	No specific data.
Ingestion	:	OneSeq Hyb 1	No specific data.
		OneSeq Hyb 2	No specific data.
		OneSeq Hyb 4	No specific data.
		OneSeq Binding Buffer	No specific data.
		OneSeq Wash Buffer 1	No specific data.
		OneSeq Wash Buffer 2	No specific data.

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

Notes to physician	:	OneSeq Hyb 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		OneSeq Hyb 2	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 Hyb 4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		OneSeq Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		OneSeq Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		OneSeq Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Specific treatments	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	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. 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. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	None known. None known. None known. None known. None known. None known.
Specific hazards arising from the chemical	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. 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.

Section 5. Firefighting measures

Hazardous thermal decomposition products	: OneSeq Hyb 1	Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides
	OneSeq Hyb 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	OneSeq Hyb 4 OneSeq Binding Buffer	No specific data. Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	No specific data. No specific data.
Special protective actions for fire-fighters	: OneSeq Hyb 1	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 Hyb 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	OneSeq Hyb 4	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 Binding 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.
	OneSeq Wash Buffer 1	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 Wash Buffer 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Special protective equipment for fire-fighters	: OneSeq Hyb 1
OneSeq Hyb 2		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
OneSeq Hyb 4		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
OneSeq Binding Buffer		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
OneSeq Wash Buffer 1		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
OneSeq Wash Buffer 2		Fire-fighters should wear appropriate protective

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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	: OneSeq Hyb 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	OneSeq Hyb 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	OneSeq Hyb 4	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 Binding 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 spilt material. Put on appropriate personal protective equipment.
	OneSeq Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	OneSeq Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: OneSeq Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding Buffer	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".

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OneSeq Wash Buffer 1	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 Wash Buffer 2	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".

Environmental precautions : OneSeq Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding Buffer	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 Wash Buffer 1	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 Wash Buffer 2	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).

Methods and material for containment and cleaning up

Methods for cleaning up : OneSeq Hyb 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
OneSeq Hyb 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
OneSeq Hyb 4	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 Binding 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

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OneSeq Wash Buffer 1	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
OneSeq Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: OneSeq Hyb 1	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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 Hyb 2	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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 Hyb 4	Put on appropriate personal protective equipment (see Section 8).
	OneSeq Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
	OneSeq Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	OneSeq Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: OneSeq Hyb 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	OneSeq Hyb 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	OneSeq Hyb 4	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

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OneSeq Binding Buffer	additional information on hygiene measures. 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 Wash Buffer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
OneSeq Wash Buffer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : OneSeq Hyb 1

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

OneSeq Hyb 2

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

OneSeq Hyb 4

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.

OneSeq Binding 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

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OneSeq Wash Buffer 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
OneSeq Wash Buffer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None.

- 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.

Section 8. Exposure controls and personal protection

- 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

Appearance

Physical state	: OneSeq Hyb 1	Liquid.
	OneSeq Hyb 2	Liquid.
	OneSeq Hyb 4	Liquid.
	OneSeq Binding Buffer	Liquid.
	OneSeq Wash Buffer 1	Liquid.
	OneSeq Wash Buffer 2	Liquid.
Colour	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Odour	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Odour threshold	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
pH	: OneSeq Hyb 1	7.4
	OneSeq Hyb 2	8
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	7.5
	OneSeq Wash Buffer 1	7
	OneSeq Wash Buffer 2	7
Melting point	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	0°C (32°F)
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	0°C (32°F)
	OneSeq Wash Buffer 2	0°C (32°F)
Boiling point	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	100°C (212°F)
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	100°C (212°F)
	OneSeq Wash Buffer 2	100°C (212°F)
Flash point	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.

Section 9. Physical and chemical properties

Evaporation rate	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Flammability (solid, gas)	: OneSeq Hyb 1	Not applicable.
	OneSeq Hyb 2	Not applicable.
	OneSeq Hyb 4	Not applicable.
	OneSeq Binding Buffer	Not applicable.
	OneSeq Wash Buffer 1	Not applicable.
	OneSeq Wash Buffer 2	Not applicable.
Lower and upper explosive (flammable) limits	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Vapour pressure	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Vapour density	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Relative density	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Solubility	: OneSeq Hyb 1	Soluble in the following materials: cold water and hot water.
	OneSeq Hyb 2	Soluble in the following materials: cold water and hot water.
	OneSeq Hyb 4	Easily soluble in the following materials: cold water and hot water.
	OneSeq Binding Buffer	Soluble in the following materials: cold water and hot water.
	OneSeq Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.
	OneSeq Wash Buffer 2	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Auto-ignition temperature	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.

Section 9. Physical and chemical properties

Decomposition temperature	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.
Viscosity	: OneSeq Hyb 1	Not available.
	OneSeq Hyb 2	Not available.
	OneSeq Hyb 4	Not available.
	OneSeq Binding Buffer	Not available.
	OneSeq Wash Buffer 1	Not available.
	OneSeq Wash Buffer 2	Not available.

Section 10. Stability and reactivity

Reactivity	: OneSeq Hyb 1	No specific test data related to reactivity available for this product or its ingredients.
	OneSeq Hyb 2	No specific test data related to reactivity available for this product or its ingredients.
	OneSeq Hyb 4	No specific test data related to reactivity available for this product or its ingredients.
	OneSeq Binding Buffer	No specific test data related to reactivity available for this product or its ingredients.
	OneSeq Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
	OneSeq Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: OneSeq Hyb 1	The product is stable.
	OneSeq Hyb 2	The product is stable.
	OneSeq Hyb 4	The product is stable.
	OneSeq Binding Buffer	The product is stable.
	OneSeq Wash Buffer 1	The product is stable.
	OneSeq Wash Buffer 2	The product is stable.
Possibility of hazardous reactions	: OneSeq Hyb 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	OneSeq Hyb 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	OneSeq Hyb 4	Under normal conditions of storage and use, hazardous reactions will not occur.
	OneSeq Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	OneSeq Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	OneSeq Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: OneSeq Hyb 1	No specific data.
	OneSeq Hyb 2	No specific data.
	OneSeq Hyb 4	No specific data.
	OneSeq Binding Buffer	No specific data.
	OneSeq Wash Buffer 1	No specific data.
	OneSeq Wash Buffer 2	No specific data.
Incompatible materials	: OneSeq Hyb 1	May react or be incompatible with oxidising materials.
	OneSeq Hyb 2	May react or be incompatible with oxidising materials.
	OneSeq Hyb 4	May react or be incompatible with oxidising materials.
	OneSeq Binding Buffer	May react or be incompatible with oxidising materials.
	OneSeq Wash Buffer 1	May react or be incompatible with oxidising materials.
	OneSeq Wash Buffer 2	May react or be incompatible with oxidising materials.

Section 10. Stability and reactivity

Hazardous decomposition products	: OneSeq Hyb 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	OneSeq Hyb 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	OneSeq Hyb 4	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	OneSeq Binding Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	OneSeq Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	OneSeq Wash Buffer 2	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
OneSeq Hyb 1 Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
OneSeq Hyb 2 Edetic acid	LD50 Oral	Rat	4000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
OneSeq Hyb 1 Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Section 11. Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Not available. Not available. Not available. Not available.
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Potential acute health effects

Eye contact	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	Causes serious eye irritation. Causes serious eye irritation. 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.
Inhalation	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: OneSeq Hyb 1 OneSeq Hyb 2 OneSeq Hyb 4 OneSeq Binding Buffer OneSeq Wash Buffer 1 OneSeq Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. 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 1	Adverse symptoms may include the following: pain or irritation watering redness
	OneSeq Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness
	OneSeq Hyb 4	No specific data.
	OneSeq Binding Buffer	No specific data.
	OneSeq Wash Buffer 1	No specific data.
	OneSeq Wash Buffer 2	No specific data.
Inhalation	: OneSeq Hyb 1	No specific data.
	OneSeq Hyb 2	No specific data.
	OneSeq Hyb 4	No specific data.
	OneSeq Binding Buffer	No specific data.
	OneSeq Wash Buffer 1	No specific data.
	OneSeq Wash Buffer 2	No specific data.

Section 11. Toxicological information

Skin contact	: OneSeq Hyb 1	No specific data.
	OneSeq Hyb 2	No specific data.
	OneSeq Hyb 4	No specific data.
	OneSeq Binding Buffer	No specific data.
	OneSeq Wash Buffer 1	No specific data.
	OneSeq Wash Buffer 2	No specific data.
Ingestion	: OneSeq Hyb 1	No specific data.
	OneSeq Hyb 2	No specific data.
	OneSeq Hyb 4	No specific data.
	OneSeq Binding Buffer	No specific data.
	OneSeq Wash Buffer 1	No specific data.
	OneSeq Wash Buffer 2	No specific data.

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

Not available.

General	: OneSeq Hyb 1	No known significant effects or critical hazards.
	OneSeq Hyb 2	No known significant effects or critical hazards.
	OneSeq Hyb 4	No known significant effects or critical hazards.
	OneSeq Binding Buffer	No known significant effects or critical hazards.
	OneSeq Wash Buffer 1	No known significant effects or critical hazards.
	OneSeq Wash Buffer 2	No known significant effects or critical hazards.
Carcinogenicity	: OneSeq Hyb 1	No known significant effects or critical hazards.
	OneSeq Hyb 2	No known significant effects or critical hazards.
	OneSeq Hyb 4	No known significant effects or critical hazards.
	OneSeq Binding Buffer	No known significant effects or critical hazards.
	OneSeq Wash Buffer 1	No known significant effects or critical hazards.
	OneSeq Wash Buffer 2	No known significant effects or critical hazards.
Mutagenicity	: OneSeq Hyb 1	No known significant effects or critical hazards.
	OneSeq Hyb 2	No known significant effects or critical hazards.
	OneSeq Hyb 4	No known significant effects or critical hazards.
	OneSeq Binding Buffer	No known significant effects or critical hazards.
	OneSeq Wash Buffer 1	No known significant effects or critical hazards.
	OneSeq Wash Buffer 2	No known significant effects or critical hazards.
Teratogenicity	: OneSeq Hyb 1	No known significant effects or critical hazards.
	OneSeq Hyb 2	No known significant effects or critical hazards.
	OneSeq Hyb 4	No known significant effects or critical hazards.
	OneSeq Binding Buffer	No known significant effects or critical hazards.
	OneSeq Wash Buffer 1	No known significant effects or critical hazards.
	OneSeq Wash Buffer 2	No known significant effects or critical hazards.
Developmental effects	: OneSeq Hyb 1	No known significant effects or critical hazards.
	OneSeq Hyb 2	No known significant effects or critical hazards.
	OneSeq Hyb 4	No known significant effects or critical hazards.
	OneSeq Binding Buffer	No known significant effects or critical hazards.
	OneSeq Wash Buffer 1	No known significant effects or critical hazards.
	OneSeq Wash Buffer 2	No known significant effects or critical hazards.

Section 11. Toxicological information

Fertility effects	: OneSeq Hyb 1	No known significant effects or critical hazards.
	OneSeq Hyb 2	No known significant effects or critical hazards.
	OneSeq Hyb 4	No known significant effects or critical hazards.
	OneSeq Binding Buffer	No known significant effects or critical hazards.
	OneSeq Wash Buffer 1	No known significant effects or critical hazards.
	OneSeq Wash Buffer 2	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
OneSeq Hyb 1 Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
OneSeq Hyb 2 Edetic acid	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
	Acute EC50 113000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 59.8 mg/l Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
OneSeq Hyb 2 Edetic acid	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
OneSeq Hyb 2 Edetic acid	-3.86	1.8	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 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. 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 spill material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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

Standard Uniform Schedule of Medicine and Poisons

6

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Australia inventory (AICS) : All components are listed or exempted.

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.

International lists

National inventory

Canada : All components are listed or exempted.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : **Japan inventory (ENCS):** All components are listed or exempted.
Japan inventory (ISHL): Not determined.
Malaysia : Not determined.

Section 15. Regulatory information

New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of revision	: 20/10/2016
Date of previous issue	: No previous validation.
Version	: 1

Key to abbreviations

: ADG = Australian Dangerous Goods
: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: NOHSC = National Occupational Health and Safety Commission
: SUSMP = Standard Uniform Schedule of Medicine and Poisons
: UN = United Nations

Procedure used to derive the classification

Classification	Justification
OneSeq Hyb 1 Eye Irrit. 2A, H319	Calculation method
OneSeq Hyb 2 Eye Irrit. 2A, H319	Calculation method

References : Not available.

☑ Indicates information that has changed from previously issued version.

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