SAFETY DATA SHEET

Agilent Technologies

SureSelect Strand - Specific RNA Library Prep Kit Box 2 - ILM - 96 Samples, Part Number 5190-6411

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

1.1 Product identifier

Product name : SureSelect Strand - Specific RNA Library Prep Kit Box 2 - ILM - 96 Samples, Part Number 5190-6411

Part No. (Kit) : 5190-6411

Part No. :

Nuclease Free Water	5190-6409
RNA-Seq Bead Washing Buffer	5190-6407
Oligo (dT) Microparticles	5190-6405
RNA-Seq Bead Binding Buffer	5190-6406
RNA-Seq Bead Elution Buffer	5190-6408

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

Identified uses	
Not available.	
Nuclease Free Water	16.7 ml (96 reactions)
RNA-Seq Bead Washing Buffer	47 ml (96 reactions)
Oligo (dT) Microparticles	2.9 ml (96 reactions)
RNA-Seq Bead Binding Buffer	3.5 ml (96 reactions)
RNA-Seq Bead Elution Buffer	3.5 ml (96 reactions)

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 :

Nuclease Free Water	Mono-constituent substance
RNA-Seq Bead Washing Buffer	Mixture
Oligo (dT) Microparticles	Mixture
RNA-Seq Bead Binding Buffer	Mixture
RNA-Seq Bead Elution Buffer	Mixture

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

Not classified.

SECTION 2: Hazards identification

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

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

2.2 Label elements

Signal word	:	Nuclease Free Water	No signal word.
		RNA-Seq Bead Washing Buffer	No signal word.
		Oligo (dT) Microparticles	No signal word.
		RNA-Seq Bead Binding Buffer	No signal word.
		RNA-Seq Bead Elution Buffer	No signal word.
Hazard statements	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.

Precautionary statements

Prevention	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA-Seq Bead Binding Buffer	Not applicable.
		RNA-Seq Bead Elution Buffer	Not applicable.
Response	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA-Seq Bead Binding Buffer	Not applicable.
		RNA-Seq Bead Elution Buffer	Not applicable.
Storage	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA-Seq Bead Binding Buffer	Not applicable.
		RNA-Seq Bead Elution Buffer	Not applicable.
Disposal	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA-Seq Bead Binding Buffer	Not applicable.
		RNA-Seq Bead Elution Buffer	Not applicable.
Hazardous ingredients	:	No hazardous ingredient	

SECTION 2: Hazards identification

Supplemental label elements	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Safety data sheet available on request.
		RNA-Seq Bead Binding Buffer	Safety data sheet available on request.
		RNA-Seq Bead Elution Buffer	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA-Seq Bead Binding Buffer	Not applicable.
		RNA-Seq Bead Elution Buffer	Not applicable.
Special packaging requirements			
Tactile warning of danger	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA-Seq Bead Binding Buffer	Not applicable.
		RNA-Seq Bead Elution Buffer	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	:	Nuclease Free Water	None known.
		RNA-Seq Bead Washing Buffer	None known.
		Oligo (dT) Microparticles	None known.
		RNA-Seq Bead Binding Buffer	None known.
		RNA-Seq Bead Elution Buffer	None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	:	Nuclease Free Water	Mono-constituent substance
		RNA-Seq Bead Washing Buffer	Mixture
		Oligo (dT) Microparticles	Mixture
		RNA-Seq Bead Binding Buffer	Mixture
		RNA-Seq Bead Elution Buffer	Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Nuclease Free Water				
Water	7732-18-5	100	Not classified.	[A]
Oligo (dT) Microparticles				
Lithium chloride	EC: 231-212-3 CAS: 7447-41-8	≤5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
RNA-Seq Bead Binding Buffer				
Lithium chloride	EC: 231-212-3 CAS: 7447-41-8	≤5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 **See Section 16 for the full text of the H statements declared above.**	[1]

SECTION 3: Composition/information on ingredients

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.

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
[A] Constituent
[B] Impurity
[C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Nuclease Free Water	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.
		RNA-Seq Bead Washing 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.
		Oligo (dT) Microparticles	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.
		RNA-Seq Bead 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.
		RNA-Seq Bead Elution 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.
Inhalation	:	Nuclease Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		RNA-Seq Bead Washing Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Oligo (dT) Microparticles	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		RNA-Seq Bead Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		RNA-Seq Bead Elution Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Nuclease Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA-Seq Bead Washing Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Oligo (dT) Microparticles	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA-Seq Bead Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA-Seq Bead Elution Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SECTION 4: First aid measures

Ingestion	:	Nuclease Free Water	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.
		RNA-Seq Bead Washing 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.
		Oligo (dT) Microparticles	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.
		RNA-Seq Bead 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.
		RNA-Seq Bead Elution 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.
Protection of first-aiders	:	Nuclease Free Water	No action shall be taken involving any personal risk or without suitable training.
		RNA-Seq Bead Washing Buffer	No action shall be taken involving any personal risk or without suitable training.
		Oligo (dT) Microparticles	No action shall be taken involving any personal risk or without suitable training.
		RNA-Seq Bead Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
		RNA-Seq Bead Elution Buffer	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	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Inhalation	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.

SECTION 4: First aid measures

Skin contact	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Ingestion	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	No specific data.
Inhalation	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	No specific data.
Skin contact	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	No specific data.
Ingestion	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Nuclease Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		RNA-Seq Bead Washing Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Oligo (dT) Microparticles	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		RNA-Seq Bead Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		RNA-Seq Bead Elution Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 4: First aid measures

Specific treatments	:	Nuclease Free Water	No specific treatment.
		RNA-Seq Bead Washing Buffer	No specific treatment.
		Oligo (dT) Microparticles	No specific treatment.
		RNA-Seq Bead Binding Buffer	No specific treatment.
		RNA-Seq Bead Elution Buffer	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Nuclease Free Water	Use an extinguishing agent suitable for the surrounding fire.
		RNA-Seq Bead Washing Buffer	Use an extinguishing agent suitable for the surrounding fire.
		Oligo (dT) Microparticles	Use an extinguishing agent suitable for the surrounding fire.
		RNA-Seq Bead Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
		RNA-Seq Bead Elution Buffer	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	Nuclease Free Water	None known.
		RNA-Seq Bead Washing Buffer	None known.
		Oligo (dT) Microparticles	None known.
		RNA-Seq Bead Binding Buffer	None known.
		RNA-Seq Bead Elution Buffer	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	Nuclease Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
		RNA-Seq Bead Washing Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		Oligo (dT) Microparticles	In a fire or if heated, a pressure increase will occur and the container may burst.
		RNA-Seq Bead Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		RNA-Seq Bead Elution Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
		RNA-Seq Bead Binding Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
		RNA-Seq Bead Elution Buffer	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	:	Nuclease Free Water	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.
		RNA-Seq Bead Washing 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.
		Oligo (dT) Microparticles	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

SECTION 5: Firefighting measures

		taken involving any personal risk or without suitable training.
	RNA-Seq Bead 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.
	RNA-Seq Bead Elution 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.
Special protective equipment for fire-fighters :	Nuclease Free Water	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.
	RNA-Seq Bead Washing Buffer	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.
	Oligo (dT) Microparticles	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.
	RNA-Seq Bead 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. 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.
	RNA-Seq Bead Elution Buffer	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 :	Nuclease Free Water	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.
	RNA-Seq Bead Washing 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.
	Oligo (dT) Microparticles	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.
	RNA-Seq Bead 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.
	RNA-Seq Bead Elution Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

SECTION 6: Accidental release measures

			Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	Nuclease Free Water	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".
		RNA-Seq Bead Washing 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".
		Oligo (dT) Microparticles	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".
		RNA-Seq Bead 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".
		RNA-Seq Bead Elution 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".
6.2 Environmental precautions	:	Nuclease Free Water	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).
		RNA-Seq Bead Washing 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).
		Oligo (dT) Microparticles	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).
		RNA-Seq Bead 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).
		RNA-Seq Bead Elution 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Nuclease Free Water	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.
		RNA-Seq Bead Washing Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Oligo (dT) Microparticles	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.
		RNA-Seq Bead 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 inert dry material and

SECTION 6: Accidental release measures

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

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 :	Nuclease Free Water	Put on appropriate personal protective equipment (see Section 8).
	RNA-Seq Bead Washing Buffer	Put on appropriate personal protective equipment (see Section 8).
	Oligo (dT) Microparticles	Put on appropriate personal protective equipment (see Section 8).
	RNA-Seq Bead Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
	RNA-Seq Bead Elution Buffer	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene :	Nuclease Free Water	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.
	RNA-Seq Bead Washing Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Oligo (dT) Microparticles	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.
	RNA-Seq Bead Binding Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	RNA-Seq Bead Elution Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities :	Nuclease Free Water	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

SECTION 7: Handling and storage

	appropriate containment to avoid environmental contamination.
RNA-Seq Bead Washing 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.
Oligo (dT) Microparticles	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.
RNA-Seq Bead 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.
RNA-Seq Bead Elution 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.

7.3 Specific end use(s)

Recommendations	:	Nuclease Free Water	Industrial applications, Professional applications.
		RNA-Seq Bead Washing Buffer	Industrial applications, Professional applications.
		Oligo (dT) Microparticles	Industrial applications, Professional applications.
		RNA-Seq Bead Binding Buffer	Industrial applications, Professional applications.
		RNA-Seq Bead Elution Buffer	Industrial applications, Professional applications.
Industrial sector specific solutions	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA-Seq Bead Binding Buffer	Not applicable.
		RNA-Seq Bead Elution Buffer	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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 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	:	Nuclease Free Water	Liquid.
		RNA-Seq Bead Washing Buffer	Liquid.
		Oligo (dT) Microparticles	Liquid.
		RNA-Seq Bead Binding Buffer	Liquid.
		RNA-Seq Bead Elution Buffer	Liquid.
Colour	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Odour	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Odour threshold	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
pH	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	7.5
		Oligo (dT) Microparticles	7.5
		RNA-Seq Bead Binding Buffer	7.5
		RNA-Seq Bead Elution Buffer	7.5
Melting point/freezing point	:	Nuclease Free Water	0°C
		RNA-Seq Bead Washing Buffer	0°C
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	0°C
		RNA-Seq Bead Elution Buffer	0°C

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	:	Nuclease Free Water	100°C
		RNA-Seq Bead Washing Buffer	100°C
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	100°C
		RNA-Seq Bead Elution Buffer	100°C
Flash point	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Evaporation rate	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Flammability (solid, gas)	:	Nuclease Free Water	Not applicable.
		RNA-Seq Bead Washing Buffer	Not applicable.
		Oligo (dT) Microparticles	Not applicable.
		RNA-Seq Bead Binding Buffer	Not applicable.
		RNA-Seq Bead Elution Buffer	Not applicable.
Upper/lower flammability or explosive limits	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Vapour pressure	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Vapour density	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.

SECTION 9: Physical and chemical properties

Relative density	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Solubility(ies)	:	Nuclease Free Water	Easily soluble in the following materials: cold water and hot water.
		RNA-Seq Bead Washing Buffer	Easily soluble in the following materials: cold water and hot water.
		Oligo (dT) Microparticles	Easily soluble in the following materials: cold water and hot water.
		RNA-Seq Bead Binding Buffer	Easily soluble in the following materials: cold water and hot water.
		RNA-Seq Bead Elution Buffer	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Auto-ignition temperature	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Decomposition temperature	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Viscosity	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.
Explosive properties	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution	Not available.

SECTION 9: Physical and chemical properties

		Buffer	
Oxidising properties	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Not available.
		RNA-Seq Bead Binding Buffer	Not available.
		RNA-Seq Bead Elution Buffer	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	Nuclease Free Water	No specific test data related to reactivity available for this product or its ingredients.
		RNA-Seq Bead Washing Buffer	No specific test data related to reactivity available for this product or its ingredients.
		Oligo (dT) Microparticles	No specific test data related to reactivity available for this product or its ingredients.
		RNA-Seq Bead Binding Buffer	No specific test data related to reactivity available for this product or its ingredients.
		RNA-Seq Bead Elution Buffer	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	Nuclease Free Water	The product is stable.
		RNA-Seq Bead Washing Buffer	The product is stable.
		Oligo (dT) Microparticles	The product is stable.
		RNA-Seq Bead Binding Buffer	The product is stable.
		RNA-Seq Bead Elution Buffer	The product is stable.
10.3 Possibility of hazardous reactions	:	Nuclease Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
		RNA-Seq Bead Washing Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
		Oligo (dT) Microparticles	Under normal conditions of storage and use, hazardous reactions will not occur.
		RNA-Seq Bead Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
		RNA-Seq Bead Elution Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	No specific data.

SECTION 10: Stability and reactivity

10.5 Incompatible materials

Nuclease Free Water	May react or be incompatible with oxidising materials.
RNA-Seq Bead Washing Buffer	May react or be incompatible with oxidising materials.
Oligo (dT) Microparticles	May react or be incompatible with oxidising materials.
RNA-Seq Bead Binding Buffer	May react or be incompatible with oxidising materials.
RNA-Seq Bead Elution Buffer	May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

Nuclease Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
RNA-Seq Bead Washing Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Oligo (dT) Microparticles	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
RNA-Seq Bead Binding Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
RNA-Seq Bead Elution Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Oligo (dT) Microparticles				
Lithium chloride	LD50 Dermal	Rabbit	1629 mg/kg	-
	LD50 Dermal	Rat	1488 mg/kg	-
	LD50 Oral	Rat	526 mg/kg	-
RNA-Seq Bead Binding Buffer				
Lithium chloride	LD50 Dermal	Rabbit	1629 mg/kg	-
	LD50 Dermal	Rat	1488 mg/kg	-
	LD50 Oral	Rat	526 mg/kg	-

Acute toxicity estimates

Route	ATE value
Oligo (dT) Microparticles	
Oral	12232.6 mg/kg
RNA-Seq Bead Binding Buffer	
Oral	12232.6 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Oligo (dT) Microparticles					
Lithium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
RNA-Seq Bead Binding Buffer					
Lithium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

SECTION 11: Toxicological information

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Nuclease Free Water	Not available.
		RNA-Seq Bead Washing Buffer	Not available.
		Oligo (dT) Microparticles	Routes of entry anticipated: Oral, Dermal, Inhalation.
		RNA-Seq Bead Binding Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
		RNA-Seq Bead Elution Buffer	Not available.

Potential acute health effects

Inhalation	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Ingestion	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Skin contact	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Eye contact	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	No specific data.

SECTION 11: Toxicological information

Ingestion	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	No specific data.
Skin contact	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	No specific data.
Eye contact	:	Nuclease Free Water	No specific data.
		RNA-Seq Bead Washing Buffer	No specific data.
		Oligo (dT) Microparticles	No specific data.
		RNA-Seq Bead Binding Buffer	No specific data.
		RNA-Seq Bead Elution Buffer	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

General	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Carcinogenicity	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Mutagenicity	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Teratogenicity	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Developmental effects	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.
Fertility effects	:	Nuclease Free Water	No known significant effects or critical hazards.
		RNA-Seq Bead Washing Buffer	No known significant effects or critical hazards.
		Oligo (dT) Microparticles	No known significant effects or critical hazards.
		RNA-Seq Bead Binding Buffer	No known significant effects or critical hazards.
		RNA-Seq Bead Elution Buffer	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Oligo (dT) Microparticles			
Lithium chloride	Acute LC50 22000 µg/l Fresh water	Fish - Gila elegans - Swim-up	96 hours
RNA-Seq Bead Binding Buffer			
Lithium chloride	Acute LC50 22000 µg/l Fresh water	Fish - Gila elegans - Swim-up	96 hours

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Oligo (dT) Microparticles			
Lithium chloride	-	-	Readily
RNA-Seq Bead Binding Buffer			
Lithium chloride	-	-	Readily

12.3 Bioaccumulative potential

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.

SECTION 12: Ecological information

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

Regulatory 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.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :

Nuclease Free Water	Not applicable.
RNA-Seq Bead Washing Buffer	Not applicable.
Oligo (dT) Microparticles	Not applicable.
RNA-Seq Bead Binding Buffer	Not applicable.
RNA-Seq Bead Elution Buffer	Not applicable.

Other EU regulations

Europe inventory : Not determined.

Seveso Directive

This product is not controlled under the Seveso Directive.

SECTION 15: Regulatory information

National regulations

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 Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
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	:	Not determined.
Turkey	:	Not determined.
United States	:	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 :

Oligo (dT) Microparticles

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

RNA-Seq Bead Binding Buffer

H302	Harmful if swallowed.

SECTION 16: Other information

	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
Full text of classifications [CLP/GHS] :	**Oligo (dT) Microparticles**	
	Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
	Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
	RNA-Seq Bead Binding Buffer	
	Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
	Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Date of issue/ Date of revision :	15/07/2016	
Date of previous issue :	No previous validation.	
Version :	1	

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.