Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

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

Section 1. Identification

1.1 Product identifier

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

Part No. (Chemical 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

Validation date : 07/15/2016

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

Material 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

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status :

Nuclease Free Water	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
RNA-Seq Bead Washing Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Oligo (dT) Microparticles	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
RNA-Seq Bead Binding Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
RNA-Seq Bead Elution Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to

Section 2. Hazards identification

the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Oligo (dT) Microparticles

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2

RNA-Seq Bead Binding Buffer

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2

2.2 GHS label elements

Hazard pictograms :

Signal word :

Nuclease Free Water	No signal word.
RNA-Seq Bead Washing Buffer	No signal word.
Oligo (dT) Microparticles	Warning
RNA-Seq Bead Binding Buffer	Warning
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	GHS SYMBOL - **Health hazard** - H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
RNA-Seq Bead Binding Buffer	GHS SYMBOL - **Health hazard** - H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
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	P260 - Do not breathe vapor.
RNA-Seq Bead Binding Buffer	P260 - Do not breathe vapor.
RNA-Seq Bead Elution Buffer	Not applicable.

Response :

Nuclease Free Water	Not applicable.
RNA-Seq Bead Washing Buffer	Not applicable.
Oligo (dT) Microparticles	P314 - Get medical attention if you feel unwell.
RNA-Seq Bead Binding Buffer	P314 - Get medical attention if you feel unwell.
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 :

Section 2. Hazards identification

	Nuclease Free Water	Not applicable.
	RNA-Seq Bead Washing Buffer	Not applicable.
	Oligo (dT) Microparticles	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	RNA-Seq Bead Binding Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	RNA-Seq Bead Elution Buffer	Not applicable.
Supplemental label elements :	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.

2.3 Other hazards

Hazards not otherwise classified :	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

Substance/mixture :	Nuclease Free Water	Substance
	RNA-Seq Bead Washing Buffer	Mixture
	Oligo (dT) Microparticles	Mixture
	RNA-Seq Bead Binding Buffer	Mixture
	RNA-Seq Bead Elution Buffer	Mixture

Ingredient name	%	CAS number
Nuclease Free Water		
Water	100	7732-18-5
Oligo (dT) Microparticles		
Lithium chloride	≤5	7447-41-8
RNA-Seq Bead Binding Buffer		
Lithium chloride	≤5	7447-41-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact :	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.

Section 4. First aid measures

			Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
		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. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
		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. 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 following exposure or if feeling unwell. 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.
		RNA-Seq Bead Binding Buffer	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 following exposure or if feeling unwell. 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.
		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. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

		RNA-Seq Bead Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		RNA-Seq Bead Elution Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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 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 following exposure or if feeling unwell. 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.
		RNA-Seq Bead Binding Buffer	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 following exposure or if feeling unwell. 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.
		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

Section 4. First aid measures

quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	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.
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 immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

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.
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.
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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		RNA-Seq Bead Binding Buffer	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.
		RNA-Seq Bead Elution Buffer	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting 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

Section 5. Fire-fighting measures

Specific hazards arising from the chemical :	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 thermal decomposition 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 protective actions 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 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.
	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.
	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.
	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

Section 5. Fire-fighting measures

	pressure mode.
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.

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 spilled 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 spilled 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	Nuclease Free Water	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		RNA-Seq Bead Washing Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		Oligo (dT) Microparticles	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		RNA-Seq Bead Binding Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8

Section 6. Accidental release measures

		on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	RNA-Seq Bead Elution Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions :	Nuclease Free Water	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	RNA-Seq Bead Washing Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Oligo (dT) Microparticles	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	RNA-Seq Bead Binding Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	RNA-Seq Bead Elution Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials 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 place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

	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.

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). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.
		RNA-Seq Bead Binding Buffer	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.
		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

Section 7. Handling and storage

		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 unlabeled containers. Use 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 unlabeled 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 unlabeled 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 unlabeled 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 7. Handling and storage

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

Ingredient name	Exposure limits
Oligo (dT) Microparticles Lithium chloride	None.
RNA-Seq Bead Binding Buffer Lithium chloride	None.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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: 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. 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.

Section 8. Exposure controls/personal protection

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

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

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

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state :	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.
Color :	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.
Odor :	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.
Odor 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 :	Nuclease Free Water	0°C (32°F)
	RNA-Seq Bead Washing Buffer	0°C (32°F)
	Oligo (dT) Microparticles	Not available.
	RNA-Seq Bead Binding Buffer	0°C (32°F)
	RNA-Seq Bead Elution Buffer	0°C (32°F)
Boiling point :	Nuclease Free Water	100°C (212°F)
	RNA-Seq Bead Washing Buffer	100°C (212°F)
	Oligo (dT) Microparticles	Not available.
	RNA-Seq Bead Binding Buffer	100°C (212°F)
	RNA-Seq Bead Elution Buffer	100°C (212°F)
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.

Section 9. Physical and chemical properties

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.
Lower and upper explosive (flammable) 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.
Vapor 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.
Vapor 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.
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	:	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.

Section 9. Physical and chemical properties

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.

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

Section 10. Stability and reactivity

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	-

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	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Section 11. Toxicological information

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Oligo (dT) Microparticles Lithium chloride	Category 3	Not applicable.	Respiratory tract irritation
RNA-Seq Bead Binding Buffer Lithium chloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Oligo (dT) Microparticles Lithium chloride	Category 2	Oral	central nervous system (CNS)
RNA-Seq Bead Binding Buffer Lithium chloride	Category 2	Oral	central nervous system (CNS)

Aspiration hazard

Not available.

Information on the 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

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.

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.

Section 11. Toxicological information

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.

Symptoms related to the physical, chemical and toxicological characteristics

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.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	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	May cause damage to organs through prolonged or repeated exposure.
		RNA-Seq Bead Binding Buffer	May cause damage to organs through prolonged or repeated exposure.
		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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oligo (dT) Microparticles	
Oral	12232.6 mg/kg
Dermal	34604.7 mg/kg
RNA-Seq Bead Binding Buffer	
Oral	12232.6 mg/kg
Dermal	34604.7 mg/kg

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

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.

Section 12. Ecological information

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

Regulatory information

DOT / IMDG / IATA : Not regulated.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : **United States inventory (TSCA 8b)**: Not determined.

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

Section 15. Regulatory information

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Oligo (dT) Microparticles Sodium azide	≤0.1	Yes.	500	-	1000	-

SARA 304 RQ : 10000000 lbs / 4540000 kg

SARA 311/312

Classification : Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Oligo (dT) Microparticles Lithium chloride	≤5	No.	No.	No.	Yes.	Yes.
RNA-Seq Bead Binding Buffer Lithium chloride	≤5	No.	No.	No.	Yes.	Yes.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

No products were found.

Canada inventory : Not determined.

International regulations

International lists : **Australia inventory (AICS)**: Not determined.
China inventory (IECSC): Not determined.
Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory: Not determined.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Turkey inventory: Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Section 16. Other information

History

Date of issue : 07/15/2016

Date of previous issue : 03/06/2013.

Version : 2

Indicates information that has changed from previously issued version.

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.