

# SAFETY DATA SHEET



SideStep mRNA Enrichment Kit, Part Number 400902

## Section 1. Identification

<b>Product identifier</b>	: SideStep mRNA Enrichment Kit, Part Number 400902		
<b>Part No. (Chemical Kit)</b>	: 400902		
<b>Part No.</b>	<input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles		400806-16
	Hybridization Buffer		400806-14
	Wash Buffer		400806-13
	Elution Buffer		400806-15
	SideStep Lysis & Stabilization Buffer		400900-21

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

Analytical reagent.

<input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles	0.5 ml
Hybridization Buffer	4 ml
Wash Buffer	4 ml
Elution Buffer	4 ml
SideStep Lysis & Stabilization Buffer	10 ml

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

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

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

SideStep Lysis & Stabilization Buffer  
H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

SideStep Lysis & Stabilization Buffer

Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

### GHS label elements

#### Hazard pictograms

SideStep Lysis & Stabilization Buffer



#### Signal word

<input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles	No signal word.
Hybridization Buffer	No signal word.
Wash Buffer	No signal word.
Elution Buffer	No signal word.
SideStep Lysis & Stabilization Buffer	WARNING

## Section 2. Hazard(s) identification

<b>Hazard statements</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H319 - Causes serious eye irritation.
<b>Precautionary statements</b>		
<b>Prevention</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. P280 - Wear eye or face protection.  P264 - Wash hands thoroughly after handling.
<b>Response</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
<b>Storage</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Other hazards which do not result in classification</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	None known. None known. None known. None known. None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	Mixture Mixture Mixture Mixture Mixture
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### CAS number/other identifiers

## Section 3. Composition and ingredient information

Ingredient name	% (w/w)	CAS number
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	<2.5	9002-93-1

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

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Oligo (dT) Magnetic Particles	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.
	Hybridization 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.
	Wash 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.
	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.
	SideStep Lysis & Stabilization 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.
<b>Inhalation</b>	: Oligo (dT) Magnetic Particles	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hybridization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Wash Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Elution Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SideStep Lysis & Stabilization 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 if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 4. First aid measures

<b>Skin contact</b>	: <b>○</b> ligo (dT) Magnetic Particles	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hybridization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Elution Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SideStep Lysis & Stabilization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: <b>○</b> ligo (dT) Magnetic Particles	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.
	Hybridization 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.
	Wash 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.
	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.
	SideStep Lysis & Stabilization 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 if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

## Section 4. First aid measures

### Potential acute health effects

<b>Eye contact</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye irritation.
<b>Inhalation</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following:  pain or irritation watering redness
<b>Inhalation</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Ingestion</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No specific data. No specific data. No specific data. No specific data. No specific data.

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

## Section 4. First aid measures

<b>Notes to physician</b>	: <b>Øligo (dT) Magnetic Particles</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hybridization Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Wash Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Elution Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SideStep Lysis & Stabilization Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: <b>Øligo (dT) Magnetic Particles</b>	No specific treatment.
	Hybridization Buffer	No specific treatment.
	Wash Buffer	No specific treatment.
	Elution Buffer	No specific treatment.
	SideStep Lysis & Stabilization Buffer	No specific treatment.
<b>Protection of first-aiders</b>	: <b>Øligo (dT) Magnetic Particles</b>	No action shall be taken involving any personal risk or without suitable training.
	Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training.
	Wash Buffer	No action shall be taken involving any personal risk or without suitable training.
	Elution Buffer	No action shall be taken involving any personal risk or without suitable training.
	SideStep Lysis & Stabilization 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.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: <b>Øligo (dT) Magnetic Particles</b>	Use an extinguishing agent suitable for the surrounding fire.
	Hybridization Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Elution Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SideStep Lysis & Stabilization Buffer	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: <b>Øligo (dT) Magnetic Particles</b>	None known.
	Hybridization Buffer	None known.
	Wash Buffer	None known.
	Elution Buffer	None known.
	SideStep Lysis & Stabilization Buffer	None known.

## Section 5. Firefighting measures

<b>Specific hazards arising from the chemical</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hybridization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Wash Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Elution Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SideStep Lysis & Stabilization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Wash Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Elution Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SideStep Lysis & Stabilization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Special protective actions for fire-fighters</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles	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.
	Hybridization 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.
	Wash 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.
	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.
	SideStep Lysis & Stabilization 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.
<b>Special protective equipment for fire-fighters</b>	: <input checked="" type="checkbox"/> Oligo (dT) Magnetic Particles	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hybridization Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Wash Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

## Section 5. Firefighting measures

Elution Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SideStep Lysis & Stabilization 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


### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: Oligo (dT) Magnetic Particles	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.
	Hybridization 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.
	Wash 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.
	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 spilt material. Put on appropriate personal protective equipment.
	SideStep Lysis & Stabilization 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: Oligo (dT) Magnetic Particles	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".
	Hybridization 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".
	Wash 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".
	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".
	SideStep Lysis & Stabilization Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on




## Section 6. Accidental release measures

suitable and unsuitable materials. See also the information in "For non-emergency personnel".


<b>Environmental precautions</b>	:  Oligo (dT) Magnetic Particles	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).
	Hybridization 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).
	Wash 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).
	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).
	SideStep Lysis & Stabilization 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).

### Methods and material for containment and cleaning up


<b>Methods for cleaning up</b>	:  Oligo (dT) Magnetic Particles	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.
	Hybridization 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.
	Wash 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.
	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.
	SideStep Lysis & Stabilization 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


### Precautions for safe handling

<b>Protective measures</b>	:  Oligo (dT) Magnetic Particles	Put on appropriate personal protective equipment (see Section 8).
	Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8).
	Wash Buffer	Put on appropriate personal protective equipment (see Section 8).
	Elution Buffer	Put on appropriate personal protective equipment (see Section 8).
	SideStep Lysis & Stabilization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### **Advice on general occupational hygiene**

	:  Oligo (dT) Magnetic Particles	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.
	Hybridization 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.
	Wash 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.
	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.
	SideStep Lysis & Stabilization 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.

### **Conditions for safe storage, including any incompatibilities**

:  Oligo (dT) Magnetic Particles	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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
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## Section 7. Handling and storage

### Hybridization Buffer

containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Wash Buffer

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Elution Buffer

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### SideStep Lysis & Stabilization 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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

None.

### **Appropriate engineering controls**

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

## Section 8. Exposure controls and personal protection

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

### Individual protection measures

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

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

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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

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

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

## Section 9. Physical and chemical properties

### Appearance

**Physical state** :  Oligo (dT) Magnetic Particles Liquid. [(aqueous suspensions)]  
 Hybridization Buffer Liquid. [Clear.]  
 Wash Buffer Liquid. [Clear.]  
 Elution Buffer Liquid. [Clear.]  
 SideStep Lysis & Stabilization Buffer Liquid.

**Colour** :  Oligo (dT) Magnetic Particles Brown.  
 Hybridization Buffer Colourless.  
 Wash Buffer Colourless.  
 Elution Buffer Colourless.  
 SideStep Lysis & Stabilization Buffer Not available.

**Odour** :  Oligo (dT) Magnetic Particles Not available.  
 Hybridization Buffer Not available.  
 Wash Buffer Not available.  
 Elution Buffer Not available.  
 SideStep Lysis & Stabilization Buffer Not available.

## Section 9. Physical and chemical properties

<b>Odour threshold</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer Not available.</li> </ul>
<b>pH</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer Not available.</li> </ul>
<b>Melting point</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer 0°C (32°F)</li> </ul>
<b>Boiling point</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer 100°C (212°F)</li> </ul>
<b>Flash point</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer Not available.</li> </ul>
<b>Evaporation rate</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer Not available.</li> </ul>
<b>Flammability (solid, gas)</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not applicable.</li> <li>Hybridization Buffer Not applicable.</li> <li>Wash Buffer Not applicable.</li> <li>Elution Buffer Not applicable.</li> <li>SideStep Lysis &amp; Stabilization Buffer Not applicable.</li> </ul>
<b>Lower and upper explosive (flammable) limits</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer Not available.</li> </ul>
<b>Vapour pressure</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer Not available.</li> </ul>
<b>Vapour density</b>	:	<ul style="list-style-type: none"> <li>Øligo (dT) Magnetic Particles Not available.</li> <li>Hybridization Buffer Not available.</li> <li>Wash Buffer Not available.</li> <li>Elution Buffer Not available.</li> <li>SideStep Lysis &amp; Stabilization Buffer Not available.</li> </ul>

## Section 9. Physical and chemical properties

<b>Relative density</b>	: Øligo (dT) Magnetic Particles	Not available.
	Hybridization Buffer	Not available.
	Wash Buffer	Not available.
	Elution Buffer	Not available.
	SideStep Lysis & Stabilization Buffer	Not available.
<b>Solubility</b>	: Øligo (dT) Magnetic Particles	Partially soluble in the following materials: cold water and hot water.
	Hybridization Buffer	Partially soluble in the following materials: cold water and hot water.
	Wash Buffer	Soluble in the following materials: cold water and hot water.
	Elution Buffer	Partially soluble in the following materials: cold water and hot water.
	SideStep Lysis & Stabilization Buffer	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Øligo (dT) Magnetic Particles	Not available.
	Hybridization Buffer	Not available.
	Wash Buffer	Not available.
	Elution Buffer	Not available.
	SideStep Lysis & Stabilization Buffer	Not available.
<b>Auto-ignition temperature</b>	: Øligo (dT) Magnetic Particles	Not available.
	Hybridization Buffer	Not available.
	Wash Buffer	Not available.
	Elution Buffer	Not available.
	SideStep Lysis & Stabilization Buffer	Not available.
<b>Decomposition temperature</b>	: Øligo (dT) Magnetic Particles	Not available.
	Hybridization Buffer	Not available.
	Wash Buffer	Not available.
	Elution Buffer	Not available.
	SideStep Lysis & Stabilization Buffer	Not available.
<b>Viscosity</b>	: Øligo (dT) Magnetic Particles	Not available.
	Hybridization Buffer	Not available.
	Wash Buffer	Not available.
	Elution Buffer	Not available.
	SideStep Lysis & Stabilization Buffer	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: Øligo (dT) Magnetic Particles	No specific test data related to reactivity available for this product or its ingredients.
	Hybridization Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Wash Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Elution Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SideStep Lysis & Stabilization Buffer	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: Øligo (dT) Magnetic Particles	The product is stable.
	Hybridization Buffer	The product is stable.
	Wash Buffer	The product is stable.
	Elution Buffer	The product is stable.
	SideStep Lysis & Stabilization Buffer	The product is stable.

## Section 10. Stability and reactivity

<b>Possibility of hazardous reactions</b>	: Oligo (dT) Magnetic Particles	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Wash Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Elution Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SideStep Lysis & Stabilization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Oligo (dT) Magnetic Particles	No specific data.
	Hybridization Buffer	No specific data.
	Wash Buffer	No specific data.
	Elution Buffer	No specific data.
	SideStep Lysis & Stabilization Buffer	No specific data.
<b>Incompatible materials</b>	: Oligo (dT) Magnetic Particles	May react or be incompatible with oxidising materials.
	Hybridization Buffer	May react or be incompatible with oxidising materials.
	Wash Buffer	May react or be incompatible with oxidising materials.
	Elution Buffer	May react or be incompatible with oxidising materials.
	SideStep Lysis & Stabilization Buffer	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: Oligo (dT) Magnetic Particles	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hybridization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Wash Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Elution Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SideStep Lysis & Stabilization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	Eyes - Moderate irritant	Rabbit	-	24 hours 10 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-

#### Sensitisation

## Section 11. Toxicological information

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Oligo (dT) Magnetic Particles Not available.  
 Hybridization Buffer Not available.  
 Wash Buffer Not available.  
 Elution Buffer Not available.  
 SideStep Lysis & Stabilization Buffer Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Eye contact** : Oligo (dT) Magnetic Particles No known significant effects or critical hazards.  
 Hybridization Buffer No known significant effects or critical hazards.  
 Wash Buffer No known significant effects or critical hazards.  
 Elution Buffer No known significant effects or critical hazards.  
 SideStep Lysis & Stabilization Buffer Causes serious eye irritation.

**Inhalation** : Oligo (dT) Magnetic Particles No known significant effects or critical hazards.  
 Hybridization Buffer No known significant effects or critical hazards.  
 Wash Buffer No known significant effects or critical hazards.  
 Elution Buffer No known significant effects or critical hazards.  
 SideStep Lysis & Stabilization Buffer No known significant effects or critical hazards.

**Skin contact** : Oligo (dT) Magnetic Particles No known significant effects or critical hazards.  
 Hybridization Buffer No known significant effects or critical hazards.  
 Wash Buffer No known significant effects or critical hazards.  
 Elution Buffer No known significant effects or critical hazards.  
 SideStep Lysis & Stabilization Buffer No known significant effects or critical hazards.

**Ingestion** : Oligo (dT) Magnetic Particles No known significant effects or critical hazards.  
 Hybridization Buffer No known significant effects or critical hazards.  
 Wash Buffer No known significant effects or critical hazards.  
 Elution Buffer No known significant effects or critical hazards.  
 SideStep Lysis & Stabilization Buffer No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics



## Section 11. Toxicological information

<b>Eye contact</b>	: Oligo (dT) Magnetic Particles	No specific data.
	Hybridization Buffer	No specific data.
	Wash Buffer	No specific data.
	Elution Buffer	No specific data.
	SideStep Lysis & Stabilization Buffer	Adverse symptoms may include the following:  pain or irritation watering redness
<b>Inhalation</b>	: Oligo (dT) Magnetic Particles	No specific data.
	Hybridization Buffer	No specific data.
	Wash Buffer	No specific data.
	Elution Buffer	No specific data.
	SideStep Lysis & Stabilization Buffer	No specific data.
<b>Skin contact</b>	: Oligo (dT) Magnetic Particles	No specific data.
	Hybridization Buffer	No specific data.
	Wash Buffer	No specific data.
	Elution Buffer	No specific data.
	SideStep Lysis & Stabilization Buffer	No specific data.
<b>Ingestion</b>	: Oligo (dT) Magnetic Particles	No specific data.
	Hybridization Buffer	No specific data.
	Wash Buffer	No specific data.
	Elution Buffer	No specific data.
	SideStep Lysis & Stabilization 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

Not available.

<b>General</b>	: Oligo (dT) Magnetic Particles	No known significant effects or critical hazards.
	Hybridization Buffer	No known significant effects or critical hazards.
	Wash Buffer	No known significant effects or critical hazards.
	Elution Buffer	No known significant effects or critical hazards.
	SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Oligo (dT) Magnetic Particles	No known significant effects or critical hazards.
	Hybridization Buffer	No known significant effects or critical hazards.
	Wash Buffer	No known significant effects or critical hazards.
	Elution Buffer	No known significant effects or critical hazards.
	SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Oligo (dT) Magnetic Particles	No known significant effects or critical hazards.
	Hybridization Buffer	No known significant effects or critical hazards.
	Wash Buffer	No known significant effects or critical hazards.
	Elution Buffer	No known significant effects or critical hazards.
	SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Teratogenicity</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Oligo (dT) Magnetic Particles Hybridization Buffer Wash Buffer Elution Buffer SideStep Lysis & Stabilization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
SideStep Lysis & Stabilization Buffer Oral	180000 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
SideStep Lysis & Stabilization Buffer Polyoxyethylene octyl phenyl ether	4.86	-	high

### Mobility in soil

## Section 12. Ecological information

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

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

## Section 13. Disposal considerations

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

## Section 14. Transport information

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

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

**Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.

**Canada** : Not determined.

**China** : Not determined.

**Europe** : Not determined.

## Section 15. Regulatory information

<b>Japan</b>	: <b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Any other relevant information

### History

<b>Date of issue/Date of revision</b>	: 12/06/2017
<b>Date of previous issue</b>	: 24/12/2015.
<b>Version</b>	: 4

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

Classification	Justification
<input checked="" type="checkbox"/> SideStep Lysis & Stabilization Buffer Eye Irrit. 2A, H319	Calculation method

<b>References</b>	: Not available.
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Indicates information that has changed from previously issued version.

### Notice to reader

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