

# SAFETY DATA SHEET



Gene Expression Wash Pack, Part Number 5188-5327

## Section 1. Identification

**Product identifier** : Gene Expression Wash Pack, Part Number 5188-5327  
**Part No. (Chemical Kit)** : 5188-5327  
**Part No.** : Agilent Gene Expression Wash Buffer 1 5188-5325  
 Agilent Gene Expression Wash Buffer 2 5188-5326  
 10%Triton X-102 5188-5903

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

Analytical chemistry.

Agilent Gene Expression Wash Buffer 1 4 L  
 Agilent Gene Expression Wash Buffer 2 4 L  
 10%Triton X-102 8.1 ml (1.35 ml / Tube)

**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

10%Triton X-102

H315 SKIN CORROSION/IRRITATION - Category 2  
 H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  
 H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

10%Triton X-102 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** : 10%Triton X-102



**Signal word** : Agilent Gene Expression Wash Buffer 1 No signal word.  
 Agilent Gene Expression Wash Buffer 2 No signal word.  
 10%Triton X-102 DANGER

**Hazard statements** : Agilent Gene Expression Wash Buffer 1 No known significant effects or critical hazards.  
 Agilent Gene Expression Wash Buffer 2 No known significant effects or critical hazards.  
 10%Triton X-102 H318 - Causes serious eye damage.  
 H315 - Causes skin irritation.  
 H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

## Section 2. Hazard(s) identification

<b>Prevention</b>	: Agilent Gene Expression Wash Buffer 1	Not applicable.
	Agilent Gene Expression Wash Buffer 2	Not applicable.
	10%Triton X-102	P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. P264 - Wash hands thoroughly after handling.
<b>Response</b>	: Agilent Gene Expression Wash Buffer 1	Not applicable.
	Agilent Gene Expression Wash Buffer 2	Not applicable.
	10%Triton X-102	P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
<b>Storage</b>	: Agilent Gene Expression Wash Buffer 1	Not applicable.
	Agilent Gene Expression Wash Buffer 2	Not applicable.
	10%Triton X-102	Not applicable.
<b>Disposal</b>	: Agilent Gene Expression Wash Buffer 1	Not applicable.
	Agilent Gene Expression Wash Buffer 2	Not applicable.
	10%Triton X-102	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: Agilent Gene Expression Wash Buffer 1	Not applicable.
	Agilent Gene Expression Wash Buffer 2	Not applicable.
	10%Triton X-102	Not applicable.
<b>Other hazards which do not result in classification</b>	: Agilent Gene Expression Wash Buffer 1	None known.
	Agilent Gene Expression Wash Buffer 2	None known.
	10%Triton X-102	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: Agilent Gene Expression Wash Buffer 1	Mixture
	Agilent Gene Expression Wash Buffer 2	Mixture
	10%Triton X-102	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
10%Triton X-102 Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	≥10 - <25	9036-19-5

## Section 3. Composition and ingredient information

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>	: Agilent Gene Expression Wash Buffer 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Agilent Gene Expression Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	10%Triton X-102	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
<b>Inhalation</b>	: Agilent Gene Expression Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Agilent Gene Expression Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10%Triton X-102	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	: Agilent Gene Expression Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Agilent Gene Expression Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10%Triton X-102	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

<b>Ingestion</b>	: Agilent Gene Expression Wash Buffer 1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Agilent Gene Expression Wash Buffer 2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	10% Triton X-102	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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

#### Potential acute health effects

<b>Eye contact</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10% Triton X-102	Causes serious eye damage.
<b>Inhalation</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10% Triton X-102	No known significant effects or critical hazards.
<b>Skin contact</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10% Triton X-102	Causes skin irritation.
<b>Ingestion</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10% Triton X-102	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

## Section 4. First aid measures

<b>Eye contact</b>	: Agilent Gene Expression Wash Buffer 1	No specific data.
	Agilent Gene Expression Wash Buffer 2	No specific data.
	10%Triton X-102	Adverse symptoms may include the following: pain watering redness
<b>Inhalation</b>	: Agilent Gene Expression Wash Buffer 1	No specific data.
	Agilent Gene Expression Wash Buffer 2	No specific data.
	10%Triton X-102	No specific data.
<b>Skin contact</b>	: Agilent Gene Expression Wash Buffer 1	No specific data.
	Agilent Gene Expression Wash Buffer 2	No specific data.
	10%Triton X-102	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	: Agilent Gene Expression Wash Buffer 1	No specific data.
	Agilent Gene Expression Wash Buffer 2	No specific data.
	10%Triton X-102	Adverse symptoms may include the following: stomach pains

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

<b>Notes to physician</b>	: Agilent Gene Expression Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Agilent Gene Expression Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	10%Triton X-102	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Specific treatments</b>	: Agilent Gene Expression Wash Buffer 1	No specific treatment.
	Agilent Gene Expression Wash Buffer 2	No specific treatment.
	10%Triton X-102	No specific treatment.
<b>Protection of first-aiders</b>	: Agilent Gene Expression Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
	Agilent Gene Expression Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
	10%Triton X-102	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: Agilent Gene Expression Wash Buffer 1 Agilent Gene Expression Wash Buffer 2 10%Triton X-102	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Agilent Gene Expression Wash Buffer 1 Agilent Gene Expression Wash Buffer 2 10%Triton X-102	None known. None known. None known.
<b>Specific hazards arising from the chemical</b>	: Agilent Gene Expression Wash Buffer 1 Agilent Gene Expression Wash Buffer 2 10%Triton X-102	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous thermal decomposition products</b>	: Agilent Gene Expression Wash Buffer 1 Agilent Gene Expression Wash Buffer 2 10%Triton X-102	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
<b>Special protective actions for fire-fighters</b>	: Agilent Gene Expression Wash Buffer 1  Agilent Gene Expression Wash Buffer 2  10%Triton X-102	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. 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. 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>	: Agilent Gene Expression Wash Buffer 1  Agilent Gene Expression Wash Buffer 2  10%Triton X-102	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive 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. 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>	:	Agilent Gene Expression Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		Agilent Gene Expression Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		10% Triton X-102	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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	:	Agilent Gene Expression Wash Buffer 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		Agilent Gene Expression Wash Buffer 2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		10% Triton X-102	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".
<b>Environmental precautions</b>	:	Agilent Gene Expression Wash Buffer 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
		Agilent Gene Expression Wash Buffer 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
		10% Triton X-102	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). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	:	Agilent Gene Expression Wash Buffer 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Agilent Gene Expression Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an

## Section 6. Accidental release measures

10% Triton X-102

inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

: Agilent Gene Expression Wash Buffer 1  
Agilent Gene Expression Wash Buffer 2  
10% Triton X-102

Put on appropriate personal protective equipment (see Section 8).  
Put on appropriate personal protective equipment (see Section 8).  
Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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

: Agilent Gene Expression Wash Buffer 1

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

Agilent Gene Expression Wash Buffer 2

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

10% Triton X-102

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

: Agilent Gene Expression Wash Buffer 1

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

Agilent Gene Expression Wash Buffer 2

Store in accordance with local regulations. Store in original container protected from direct sunlight in a



## Section 7. Handling and storage

10% Triton X-102

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. 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. Store locked up. 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**

: If user operations generate dust, fumes, gas, vapour 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### Skin protection

#### **Hand protection**

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

#### **Body protection**

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

## Section 8. Exposure controls and personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: Agilent Gene Expression Wash Buffer 1	Liquid.
	: Agilent Gene Expression Wash Buffer 2	Liquid.
	: 10%Triton X-102	Liquid.
<b>Colour</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	: Agilent Gene Expression Wash Buffer 2	Not available.
	: 10%Triton X-102	Not available.
<b>Odour</b>	: Agilent Gene Expression Wash Buffer 1	Odourless.
	: Agilent Gene Expression Wash Buffer 2	Odourless.
	: 10%Triton X-102	Odourless.
<b>Odour threshold</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	: Agilent Gene Expression Wash Buffer 2	Not available.
	: 10%Triton X-102	Not available.
<b>pH</b>	: Agilent Gene Expression Wash Buffer 1	8.4
	: Agilent Gene Expression Wash Buffer 2	8.1
	: 10%Triton X-102	8 to 8.4
<b>Melting point</b>	: Agilent Gene Expression Wash Buffer 1	0°C (32°F)
	: Agilent Gene Expression Wash Buffer 2	0°C (32°F)
	: 10%Triton X-102	Not available.
<b>Boiling point</b>	: Agilent Gene Expression Wash Buffer 1	100°C (212°F)
	: Agilent Gene Expression Wash Buffer 2	100°C (212°F)
	: 10%Triton X-102	Not available.
<b>Flash point</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	: Agilent Gene Expression Wash Buffer 2	Not available.
	: 10%Triton X-102	Not available.
<b>Evaporation rate</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	: Agilent Gene Expression Wash Buffer 2	Not available.
	: 10%Triton X-102	Not available.
<b>Flammability (solid, gas)</b>	: Agilent Gene Expression Wash Buffer 1	Not applicable.
	: Agilent Gene Expression Wash Buffer 2	Not applicable.
	: 10%Triton X-102	Not applicable.

## Section 9. Physical and chemical properties

<b>Lower and upper explosive (flammable) limits</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	Agilent Gene Expression Wash Buffer 2	Not available.
	10% Triton X-102	Not available.
<b>Vapour pressure</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	Agilent Gene Expression Wash Buffer 2	Not available.
	10% Triton X-102	Not available.
<b>Vapour density</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	Agilent Gene Expression Wash Buffer 2	Not available.
	10% Triton X-102	Not available.
<b>Relative density</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	Agilent Gene Expression Wash Buffer 2	Not available.
	10% Triton X-102	Not available.
<b>Solubility</b>	: Agilent Gene Expression Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.
	Agilent Gene Expression Wash Buffer 2	Easily soluble in the following materials: cold water and hot water.
	10% Triton X-102	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	Agilent Gene Expression Wash Buffer 2	Not available.
	10% Triton X-102	Not available.
<b>Auto-ignition temperature</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	Agilent Gene Expression Wash Buffer 2	Not available.
	10% Triton X-102	Not available.
<b>Decomposition temperature</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	Agilent Gene Expression Wash Buffer 2	Not available.
	10% Triton X-102	Not available.
<b>Viscosity</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	Agilent Gene Expression Wash Buffer 2	Not available.
	10% Triton X-102	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: Agilent Gene Expression Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
	Agilent Gene Expression Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
	10% Triton X-102	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: Agilent Gene Expression Wash Buffer 1	The product is stable.
	Agilent Gene Expression Wash Buffer 2	The product is stable.
	10% Triton X-102	The product is stable.

## Section 10. Stability and reactivity

<b>Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> Agilent Gene Expression Wash Buffer 1 Agilent Gene Expression Wash Buffer 2 10%Triton X-102	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: <input checked="" type="checkbox"/> Agilent Gene Expression Wash Buffer 1 Agilent Gene Expression Wash Buffer 2 10%Triton X-102	No specific data. No specific data. No specific data.
<b>Incompatible materials</b>	: <input checked="" type="checkbox"/> Agilent Gene Expression Wash Buffer 1 Agilent Gene Expression Wash Buffer 2 10%Triton X-102	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: <input checked="" type="checkbox"/> Agilent Gene Expression Wash Buffer 1  Agilent Gene Expression Wash Buffer 2  10%Triton X-102	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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
<input checked="" type="checkbox"/> 10%Triton X-102 Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	LD50 Oral	Rat	2800 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<input checked="" type="checkbox"/> 10%Triton X-102 Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1%	-

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

## Section 11. Toxicological information

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	: Agilent Gene Expression Wash Buffer 1	Not available.
	: Agilent Gene Expression Wash Buffer 2	Not available.
	: 10% Triton X-102	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

<b>Eye contact</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	: Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	: 10% Triton X-102	Causes serious eye damage.
<b>Inhalation</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	: Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	: 10% Triton X-102	No known significant effects or critical hazards.
<b>Skin contact</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	: Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	: 10% Triton X-102	Causes skin irritation.
<b>Ingestion</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	: Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	: 10% Triton X-102	No known significant effects or critical hazards.

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

<b>Eye contact</b>	: Agilent Gene Expression Wash Buffer 1	No specific data.
	: Agilent Gene Expression Wash Buffer 2	No specific data.
	: 10% Triton X-102	Adverse symptoms may include the following: pain watering redness
<b>Inhalation</b>	: Agilent Gene Expression Wash Buffer 1	No specific data.
	: Agilent Gene Expression Wash Buffer 2	No specific data.
	: 10% Triton X-102	No specific data.

## Section 11. Toxicological information

<b>Skin contact</b>	: Agilent Gene Expression Wash Buffer 1	No specific data.
	Agilent Gene Expression Wash Buffer 2	No specific data.
	10%Triton X-102	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	: Agilent Gene Expression Wash Buffer 1	No specific data.
	Agilent Gene Expression Wash Buffer 2	No specific data.
	10%Triton X-102	Adverse symptoms may include the following: stomach pains

### 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>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10%Triton X-102	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10%Triton X-102	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10%Triton X-102	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10%Triton X-102	No known significant effects or critical hazards.
<b>Developmental effects</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10%Triton X-102	No known significant effects or critical hazards.
<b>Fertility effects</b>	: Agilent Gene Expression Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Gene Expression Wash Buffer 2	No known significant effects or critical hazards.
	10%Triton X-102	No known significant effects or critical hazards.

## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>10% Triton X-102</b> Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	Acute EC50 210 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 to 9800 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>10% Triton X-102</b> Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	3.77	78.67	low

### Mobility in soil

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

5

### 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

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <input checked="" type="checkbox"/> <b>Japan inventory (ENCS):</b> All components are listed or exempted. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: <input checked="" type="checkbox"/> Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.



## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 31/05/2017  
**Date of previous issue** : 28/10/2015.  
**Version** : 4

### Key to abbreviations

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

### Procedure used to derive the classification

Classification	Justification
10% Triton X-102 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method

**References** : Not available.

✓ Indicates information that has changed from previously issued version.

### Notice to reader

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