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

<table>
<thead>
<tr>
<th>10%Triton X-102</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
</tr>
<tr>
<td>H318</td>
</tr>
<tr>
<td>H412</td>
</tr>
</tbody>
</table>

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.
Section 2. Hazard(s) identification

**Prevention**: Agilent Gene Expression Wash Buffer 1 Not applicable. Agilent Gene Expression Wash Buffer 2 Not applicable. 10% Triton X-102 Not applicable.

**Response**: 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.

**Storage**: Agilent Gene Expression Wash Buffer 1 Not applicable. Agilent Gene Expression Wash Buffer 2 Not applicable. 10% Triton X-102 Not applicable.

**Disposal**: Agilent Gene Expression Wash Buffer 1 Not applicable. Agilent Gene Expression Wash Buffer 2 Not applicable. 10% Triton X-102 Not applicable.

**Supplemental label elements**: Agilent Gene Expression Wash Buffer 1 Not applicable. Agilent Gene Expression Wash Buffer 2 Not applicable. 10% Triton X-102 Not applicable.

**Other hazards which do not result in classification**: 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

**Substance/mixture**: Agilent Gene Expression Wash Buffer 1 Mixture. Agilent Gene Expression Wash Buffer 2 Mixture. 10% Triton X-102 Mixture.

**CAS number/other identifiers**:

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Triton X-102 Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-</td>
<td>≥10 - &lt;25</td>
<td>9036-19-5</td>
</tr>
</tbody>
</table>

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

Eye contact
- 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.

Inhalation
- 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.

Skin contact
- 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

Ingestion:

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

Eye contact:

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.

Inhalation:

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.

Skin contact:

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.

Ingestion:

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

Eye contact:
- Agilent Gene Expression Wash Buffer 1
- Agilent Gene Expression Wash Buffer 2
- 10% Triton X-102
  Adverse symptoms may include the following:
  pain
  watering
  redness

Inhalation:
- Agilent Gene Expression Wash Buffer 1
- Agilent Gene Expression Wash Buffer 2
- 10% Triton X-102
  Adverse symptoms may include the following:
  pain or irritation
  redness
  blistering may occur

Skin contact:
- Agilent Gene Expression Wash Buffer 1
- Agilent Gene Expression Wash Buffer 2
- 10% Triton X-102
  Adverse symptoms may include the following:
  stomach pains

Ingestion:
- Agilent Gene Expression Wash Buffer 1
- Agilent Gene Expression Wash Buffer 2
- 10% Triton X-102
  Adverse symptoms may include the following:
  pain or irritation
  redness

Notes to physician:
- Agilent Gene Expression Wash Buffer 1
- Agilent Gene Expression Wash Buffer 2
- 10% Triton X-102
  Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments:
- Agilent Gene Expression Wash Buffer 1
- Agilent Gene Expression Wash Buffer 2
- 10% Triton X-102
  No specific treatment.

Protection of first-aiders:
- Agilent Gene Expression Wash Buffer 1
- Agilent Gene Expression Wash Buffer 2
- 10% Triton X-102
  No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)
# Section 5. Firefighting measures

## Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>None known.</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>None known.</td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>None known.</td>
</tr>
</tbody>
</table>

## Specific hazards arising from the chemical

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>In a fire or if heated, a pressure increase will occur and the container may burst.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>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.</td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>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.</td>
</tr>
</tbody>
</table>

## Special protective actions for fire-fighters

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
</tr>
<tr>
<td>10% Triton X-102</td>
</tr>
</tbody>
</table>

## Extinguishing media

None known.

## Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

## Unsuitable extinguishing media

No specific data.

No specific data.

No specific data.

## Hazardous thermal decomposition products

Decomposition products may include the following materials:

- carbon dioxide
- carbon monoxide
- nitrogen oxides

## Special protective actions for fire-fighters

<table>
<thead>
<tr>
<th>Special protective actions for fire-fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
</tr>
<tr>
<td>10% Triton X-102</td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**
- 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 spill 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 spill 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 spill material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders**
- 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".

**Environmental precautions**
- Agilent Gene Expression Wash Buffer 1: Avoid dispersal of spill material and run off 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 spill material and run off 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 spill material and run off 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**

**Methods for cleaning up**
- 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**
- 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).

**Advice on general occupational hygiene**
- Agilent Gene Expression Wash Buffer 1
- Agilent Gene Expression Wash Buffer 2
- 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
- Agilent Gene Expression Wash Buffer 2

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

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**Date of previous issue**: 28/10/2015
**Version**: 4
Section 7. Handling and storage

Gene Expression Wash Pack, Part Number 5188-5327

10% Triton X-102

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

Environmental exposure 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.

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

Physical state:
- Agilent Gene Expression Wash Buffer 1: Liquid.
- Agilent Gene Expression Wash Buffer 2: Liquid.
- 10% Triton X-102: Liquid.

Colour:
- Agilent Gene Expression Wash Buffer 1: Not available.
- Agilent Gene Expression Wash Buffer 2: Not available.
- 10% Triton X-102: Not available.

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

Odour threshold:
- Agilent Gene Expression Wash Buffer 1: Not available.
- Agilent Gene Expression Wash Buffer 2: Not available.
- 10% Triton X-102: Not available.

pH:
- Agilent Gene Expression Wash Buffer 1: Not available.
- Agilent Gene Expression Wash Buffer 2: Not available.
- 10% Triton X-102: Not available.

Melting point:
- 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.

Boiling point:
- 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.

Flash point:
- Agilent Gene Expression Wash Buffer 1: Not available.
- Agilent Gene Expression Wash Buffer 2: Not available.
- 10% Triton X-102: Not available.

Evaporation rate:
- Agilent Gene Expression Wash Buffer 1: Not available.
- Agilent Gene Expression Wash Buffer 2: Not available.
- 10% Triton X-102: Not available.

Flammability (solid, gas):
- 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

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

### Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Agilent Gene Expression Wash Buffer 1</th>
<th>Agilent Gene Expression Wash Buffer 2</th>
<th>10% Triton X-102</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reactivity</strong></td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td><strong>Chemical stability</strong></td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

Possibility of hazardous reactions

: Agilent Gene Expression Wash Buffer 1
  Under normal conditions of storage and use, hazardous reactions will not occur.

Agilent Gene Expression Wash Buffer 2
  Under normal conditions of storage and use, hazardous reactions will not occur.

10% Triton X-102
  Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: 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.

Incompatible materials

: Agilent Gene Expression Wash Buffer 1
  May react or be incompatible with oxidising materials.

Agilent Gene Expression Wash Buffer 2
  May react or be incompatible with oxidising materials.

10% Triton X-102
  May react or be incompatible with oxidising materials.

Hazardous decomposition products

: Agilent Gene Expression Wash Buffer 1
  Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Agilent Gene Expression Wash Buffer 2
  Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10% Triton X-102
  Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Triton X-102</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2800 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Triton X-102</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>1%</td>
<td>-</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

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## 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.

<table>
<thead>
<tr>
<th>Information on likely routes of exposure</th>
<th>Agilent Gene Expression Wash Buffer 1</th>
<th>Agilent Gene Expression Wash Buffer 2</th>
<th>10% Triton X-102</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td><strong>Potential acute health effects</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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

| **Eye contact**                          | No specific data.                       | No specific data.                       | Adverse symptoms may include the following: pain, watering, redness |
| **Inhalation**                           | No specific data.                       | No specific data.                       | No specific data. |

**Date of issue/Date of revision**: 31/05/2017  
**Date of previous issue**: 28/10/2015  
**Version**: 4
Section 11. Toxicological information

Skin contact:
- 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

Ingestion:
- Agilent Gene Expression Wash Buffer 1: No specific data.
- Agilent Gene Expression Wash Buffer 2: No specific data.
- 10% Triton X-102: No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Potential chronic health effects
Not available.

General:
- 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.

Carcinogenicity:
- 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.

Mutagenicity:
- 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.

Teratogenicity:
- 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.

Developmental effects:
- 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.

Fertility effects:
- 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

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

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Triton X-102 Poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-</td>
<td>3.77</td>
<td>78.67</td>
<td>low</td>
</tr>
</tbody>
</table>

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 spill 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**

**Australia** : All components are listed or exempted.

**Canada** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Europe** : All components are listed or exempted.

**Japan**

- Japan inventory (ENCS): All components are listed or exempted.
- Japan inventory (ISHL): Not determined.

**Malaysia** : Not determined.

**New Zealand** : All components are listed or exempted.

**Philippines** : All components are listed or exempted.

**Republic of Korea** : All components are listed or exempted.

**Taiwan** : All components are listed or exempted.

**Thailand** : Not determined.

**Turkey** : Not determined.

**United States** : All components are listed or exempted.

**Viet Nam** : 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
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Triton X-102</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 3, H412</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

References : Not available.

Directions are information that has changed from previously issued version.

Notice to reader

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