SAFETY DATA SHEET
Gene Expression Wash Pack, Part Number 5188-5327

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

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

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

<table>
<thead>
<tr>
<th>Identified uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical chemistry.</td>
</tr>
<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>

1.3 Details of the supplier of the safety data sheet
Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000
e-mail address of person responsible for this SDS: pdl-msds_author@agilent.com

1.4 Emergency telephone number
Emergency telephone number (with hours of operation): CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Product definition: Mixture
Agilent Gene Expression Wash Buffer 1
Agilent Gene Expression Wash Buffer 2
10% Triton X-102

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

Ingredients of unknown toxicity: 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%

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

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SECTION 2: Hazards identification

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

2.2 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

Prevention : 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.

Response : Agilent Gene Expression Wash Buffer 1 Not applicable.
           Agilent Gene Expression Wash Buffer 2 Not applicable.
           10% Triton X-102 P305 + P351 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or physician.

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 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : 10% Triton X-102 - Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-omega.-hydroxy-

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.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Agilent Gene Expression Wash Buffer 1 Not applicable.
                                                                Agilent Gene Expression Wash Buffer 2 Not applicable.
                                                                10% Triton X-102 Not applicable.

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SECTION 2: Hazards identification

Special packaging requirements

Tactile warning of danger

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

2.3 Other hazards

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/information on ingredients

3.1 Substances

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.

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
</table>
| 10% Triton X-102        | CAS: 9036-19-5 | ≥10 - <25 | Skin Irrit. 2, H315  
Eye Dam. 1, H318  
Aquatic Chronic 2, H411  
See Section 16 for the full text of the H statements declared above. |

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] Substance classified with a health or environmental hazard</td>
</tr>
<tr>
<td>[2] Substance with a workplace exposure limit</td>
</tr>
<tr>
<td>[5] Substance of equivalent concern</td>
</tr>
<tr>
<td>[6] Additional disclosure due to company policy</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of 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.

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SECTION 4: First aid measures

**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.

**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 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. 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. Loosent tight clothing such as a collar, tie, belt...
SECTION 4: First aid measures

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.

or waistband.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

Causes serious eye damage.

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

No known significant effects or critical hazards.

Causes skin irritation.

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

No known significant effects or critical hazards.

Over-exposure signs/symptoms

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

No specific data.

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

No specific data.

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

No specific data.

Adverse symptoms may include the following:
- pain or irritation
- redness
- blistering may occur
### SECTION 4: First aid measures

**Ingestion**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Notes to physician</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>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.</td>
</tr>
</tbody>
</table>

**Specific treatments**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specific treatments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>Adverse symptoms may include the following: stomach pains</td>
</tr>
</tbody>
</table>

### SECTION 5: Firefighting measures

**5.1 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>

**5.2 Special hazards arising from the substance or mixture**

<table>
<thead>
<tr>
<th>Hazards from the substance or mixture</th>
<th>Hazardous combustion products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td></td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td></td>
</tr>
</tbody>
</table>

**5.3 Advice for firefighters**

<table>
<thead>
<tr>
<th>Date of issue/Date of revision</th>
<th>31/05/2017</th>
</tr>
</thead>
</table>
SECTION 5: Firefighting measures

Special precautions for fire-fighters:
- Agilent Gene Expression Wash Buffer 1
  - 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.
- Agilent Gene Expression Wash Buffer 2
  - 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.
- 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.

Special protective equipment for fire-fighters:
- Agilent Gene Expression Wash Buffer 1
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Agilent Gene Expression Wash Buffer 2
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
- 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.

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".
**SECTION 6: Accidental release measures**

### 6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Product</th>
<th>Prevention Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>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).</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>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).</td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 6.3 Methods and material for containment and cleaning up

#### Methods for cleaning up

<table>
<thead>
<tr>
<th>Product</th>
<th>Cleaning Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>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.</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>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.</td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 6.4 Reference to other sections

- See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

#### Protective measures

<table>
<thead>
<tr>
<th>Product</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>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.</td>
</tr>
</tbody>
</table>

#### Advice on general occupational hygiene

<table>
<thead>
<tr>
<th>Product</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>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.</td>
</tr>
<tr>
<td>Agilent Gene Expression</td>
<td>Eating, drinking and smoking should be prohibited in areas</td>
</tr>
</tbody>
</table>

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SECTION 7: Handling and storage

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.

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. 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage

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 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.

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.

7.3 Specific end use(s)

Recommendations

: Agilent Gene Expression Wash Buffer 1
Industrial applications, Professional applications.

: Agilent Gene Expression Wash Buffer 2
Industrial applications, Professional applications.

: 10%Triton X-102
Industrial applications, Professional applications.

Industrial sector specific solutions

: Agilent Gene Expression Wash Buffer 1
Not applicable.

: Agilent Gene Expression Wash Buffer 2
Not applicable.

: 10%Triton X-102
Not applicable.
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No exposure limit value known.

Recommended monitoring procedures
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs
No DNELs/DMELs available.

PNECs
No PNECs available

8.2 Exposure controls

Appropriate engineering controls
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.

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.

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.

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SECTION 8: Exposure controls/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.

SECTION 9: Physical and chemical properties

9.1 Information on basic 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>Physical state</td>
<td>Liquid</td>
<td>Liquid</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Odourless</td>
<td>Odourless</td>
<td>Not available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Odourless</td>
<td>Odourless</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>8.4</td>
<td>8.1</td>
<td>8 to 8.4</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>0°C</td>
<td>0°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>100°C</td>
<td>100°C</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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### 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>Flash point</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive 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(ies)</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>
</tbody>
</table>

**Date of issue/Date of revision**: 31/05/2017
### 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>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>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

#### 9.2 Other information

No additional information.

### SECTION 10: Stability and reactivity

<table>
<thead>
<tr>
<th>Subsection</th>
<th>Product Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10.1 Reactivity</strong></td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td><strong>10.2 Chemical stability</strong></td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 31/05/2017
SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

<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>Agilent Gene Expression Wash Buffer 1</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10.4 Conditions to avoid

<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>Agilent Gene Expression Wash Buffer 1</td>
<td>No specific data.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>No specific data.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>No specific data.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10.5 Incompatible materials

<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>Agilent Gene Expression Wash Buffer 1</td>
<td>May react or be incompatible with oxidising materials.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>May react or be incompatible with oxidising materials.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>May react or be incompatible with oxidising materials.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10.6 Hazardous decomposition products

<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>Agilent Gene Expression Wash Buffer 1</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10% Triton X-102</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 11: Toxicological information

11.1 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 Poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2800 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Acute toxicity estimates

Not available.

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 Poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>1%</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitiser

Conclusion/Summary

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

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## SECTION 11: Toxicological information

Not available.

### Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Component</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>No available.</td>
</tr>
<tr>
<td></td>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>No available.</td>
</tr>
<tr>
<td></td>
<td>10%Triton X-102</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>10%Triton X-102</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>10%Triton X-102</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Agilent Gene Expression Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Agilent Gene Expression Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>10%Triton X-102</td>
<td>Causes serious eye damage.</td>
</tr>
</tbody>
</table>

### Potential acute health effects

- **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: Route of entry anticipated: Oral, Dermal, Inhalation.

- **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.

- **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.

- **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.

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

- **Inhalation**
  - 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.

- **Ingestion**
  - 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.

- **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.

- **Eye 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, watering, redness.

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

**Short term exposure**

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## SECTION 11: Toxicological information

### Potential immediate 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.

### Potential delayed 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.

### Long term exposure
- 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.

### Potential chronic health effects
#### 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 12: Ecological information

### 12.1 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</td>
<td>Acute EC50 210 μg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata</td>
<td>96 hours</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), α-(1,1,3,3-tetramethylbutyl)phenyl)-ω-hydroxy-</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>

### 12.2 Persistence and degradability

**Date of issue/Date of revision**: 31/05/2017

| Date of issue/Date of revision | 16/19 |
SECTION 12: Ecological information

12.3 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</td>
<td>3.77</td>
<td>78.67</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

- Soil/water partition coefficient (K<sub>OC</sub>): Not available.
- Mobility: Not available.

12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- **Product**
  - Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
  - Hazardous waste Packaging: The classification of the product may meet the criteria for a hazardous waste.

- **Methods of disposal**:
  - The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
  - Special precautions: This material and its container must be disposed of in a safe way. 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

14.6 Special precautions for user

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

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not available.
SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Intrinsic property</th>
<th>Status</th>
<th>Reference number</th>
<th>Date of revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Triton X-102</td>
<td>Substance of equivalent concern for environment</td>
<td>Recommended</td>
<td>ED/169/2012</td>
<td>2/10/2014</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>

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

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

**Other EU regulations**

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**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**

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Canada</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>China</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Europe</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
<td>Japan inventory (ENCS): All components are listed or exempted.</td>
</tr>
<tr>
<td></td>
<td>Japan inventory (ISHL): Not determined.</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Philippines</td>
<td>All components are listed or exempted.</td>
</tr>
</tbody>
</table>

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SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Republic of Korea</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Taiwan</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Thailand</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Turkey</td>
<td>Not determined.</td>
</tr>
<tr>
<td>United States</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

15.2 Chemical safety assessment: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<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 Irr. 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>

Full text of abbreviated H statements

10% Triton X-102

| H315       | Causes skin irritation.                |
| H318       | Causes serious eye damage.             |
| H411       | Toxic to aquatic life with long lasting effects. |
| H412       | Harmful to aquatic life with long lasting effects. |

Full text of classifications [CLP/GHS]

10% Triton X-102

| Aquatic Chronic 2, H411 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3, H412 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1, H318        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Skin Irrit. 2, H315     | SKIN CORROSION/IRRITATION - Category 2          |

Date of issue/ Date of revision: 31/05/2017

Date of previous issue: No previous validation.

Version: 1

Notice to reader

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