SAFETY DATA SHEET

Agilent oligo aCGH Wash Buffer Kit, Part Number 5188-5226

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

1.1 Product identifier

Product name: Agilent oligo aCGH Wash Buffer Kit, Part Number 5188-5226

Part No. (Kit): 5188-5226

Part No.: Oligo aCGH Wash Buffer 1 5188-5222

Oligo aCGH Wash Buffer 2 5188-5222

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

Identified uses

<table>
<thead>
<tr>
<th>Analytical chemistry. (Wash Buffers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oligo aCGH Wash Buffer 1 4 L</td>
</tr>
<tr>
<td>Oligo aCGH Wash Buffer 2 4 L</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: Oligo aCGH Wash Buffer 1 Mixture

Oligo aCGH Wash Buffer 2 Mixture

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

Not classified.

Classification according to Directive 1999/45/EC [DPD]

Oligo aCGH Wash Buffer 1 The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Oligo aCGH Wash Buffer 2 The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Oligo aCGH Wash Buffer 1 Not classified.

Oligo aCGH Wash Buffer 2 Not classified.

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

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

Date of issue/Date of revision: 27/03/2015
SECTION 2: Hazards identification

2.2 Label elements

Signal word: Oligo aCGH Wash Buffer 1, Oligo aCGH Wash Buffer 2
None known.

Hazard statements:
- Oligo aCGH Wash Buffer 1: No known significant effects or critical hazards.
- Oligo aCGH Wash Buffer 2: No known significant effects or critical hazards.

Precautionary statements:

Prevention:
- Oligo aCGH Wash Buffer 1: Not applicable.
- Oligo aCGH Wash Buffer 2: Not applicable.

Response:
- Oligo aCGH Wash Buffer 1: Not applicable.
- Oligo aCGH Wash Buffer 2: Not applicable.

Storage:
- Oligo aCGH Wash Buffer 1: Not applicable.
- Oligo aCGH Wash Buffer 2: Not applicable.

Disposal:
- Oligo aCGH Wash Buffer 1: Not applicable.
- Oligo aCGH Wash Buffer 2: Not applicable.

Hazardous ingredients:
- No hazardous ingredient.

Supplemental label elements:
- Oligo aCGH Wash Buffer 1: Not applicable.
- Oligo aCGH Wash Buffer 2: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:
- Not applicable.

Special packaging requirements:

Tactile warning of danger:
- Oligo aCGH Wash Buffer 1: Not applicable.
- Oligo aCGH Wash Buffer 2: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification:
- Oligo aCGH Wash Buffer 1: None known.
- Oligo aCGH Wash Buffer 2: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oligo aCGH Wash Buffer 1</td>
<td>Mixture</td>
</tr>
<tr>
<td>Oligo aCGH Wash Buffer 2</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

No hazardous ingredient

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Date of issue/Date of revision: 27/03/2015
SECTION 3: Composition/information on ingredients

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

**Eye contact**
Oligo aCGH 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.

Oligo aCGH 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.

**Inhalation**
Oligo aCGH Wash Buffer 1
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Oligo aCGH Wash Buffer 2
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**
Oligo aCGH Wash Buffer 1
Immediately flush eyes with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Oligo aCGH Wash Buffer 2
Immediately flush eyes with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**
Oligo aCGH 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.

Oligo aCGH 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.

**Protection of first-aiders**
Oligo aCGH Wash Buffer 1
No action shall be taken involving any personal risk or without suitable training.

Oligo aCGH Wash Buffer 2
No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**

**Eye contact**
Oligo aCGH Wash Buffer 1
No known significant effects or critical hazards.

Oligo aCGH Wash Buffer 2
No known significant effects or critical hazards.

**Inhalation**
Oligo aCGH Wash Buffer 1
No known significant effects or critical hazards.

Oligo aCGH Wash Buffer 2
No known significant effects or critical hazards.

**Skin contact**
Oligo aCGH Wash Buffer 1
No known significant effects or critical hazards.

Oligo aCGH Wash Buffer 2
No known significant effects or critical hazards.
SECTION 4: First aid measures

Ingestion:
- **Oligo aCGH Wash Buffer 1**
  - No known significant effects or critical hazards.
- **Oligo aCGH Wash Buffer 2**
  - No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**:
- **Oligo aCGH Wash Buffer 1**
  - No specific data.
- **Oligo aCGH Wash Buffer 2**
  - No specific data.

**Inhalation**:
- **Oligo aCGH Wash Buffer 1**
  - No specific data.
- **Oligo aCGH Wash Buffer 2**
  - No specific data.

**Skin contact**:
- **Oligo aCGH Wash Buffer 1**
  - No specific data.
- **Oligo aCGH Wash Buffer 2**
  - No specific data.

**Ingestion**:
- **Oligo aCGH Wash Buffer 1**
  - No specific data.
- **Oligo aCGH Wash Buffer 2**
  - No specific data.

**Eye contact**:
- **Oligo aCGH Wash Buffer 1**
  - No specific data.
- **Oligo aCGH Wash Buffer 2**
  - No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician**:
- **Oligo aCGH Wash Buffer 1**
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **Oligo aCGH Wash Buffer 2**
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**:
- **Oligo aCGH Wash Buffer 1**
  - No specific treatment.
- **Oligo aCGH Wash Buffer 2**
  - No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

**Suitable extinguishing media**:
- **Oligo aCGH Wash Buffer 1**
  - Use an extinguishing agent suitable for the surrounding fire.
- **Oligo aCGH Wash Buffer 2**
  - Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**:
- **Oligo aCGH Wash Buffer 1**
  - None known.
- **Oligo aCGH Wash Buffer 2**
  - None known.

5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture**:
- **Oligo aCGH Wash Buffer 1**
  - In a fire or if heated, a pressure increase will occur and the container may burst.
- **Oligo aCGH Wash Buffer 2**
  - In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products**:
- **Oligo aCGH Wash Buffer 1**
  - No specific data.
- **Oligo aCGH Wash Buffer 2**
  - No specific data.

5.3 Advice for firefighters

**Special precautions for fire-fighters**:
- **Oligo aCGH 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.
- **Oligo aCGH 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.

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SECTION 5: Firefighting measures

**Special protective equipment for fire-fighters**

- **Oligo aCGH 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.

- **Oligo aCGH 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.

**SECTION 6: Accidental release measures**

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

- **For non-emergency personnel**
  - **Oligo aCGH 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.

- **For emergency responders**
  - **Oligo aCGH 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".

**6.2 Environmental precautions**

- **Oligo aCGH 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).

- **Oligo aCGH 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).

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

- **Methods for cleaning up**
  - 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.

**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**
  - **Oligo aCGH Wash Buffer 1**
    Put on appropriate personal protective equipment (see Section 8).
  - **Oligo aCGH Wash Buffer 2**
    Put on appropriate personal protective equipment (see Section 8).
SECTION 7: Handling and storage

Advice on general occupational hygiene

Oligo aCGH 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.

Oligo aCGH 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.

7.2 Conditions for safe storage, including any incompatibilities

Oligo aCGH 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.

Oligo aCGH 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.

7.3 Specific end use(s)

Recommendations

Oligo aCGH Wash Buffer 1
- Industrial applications.

Oligo aCGH Wash Buffer 2
- Industrial applications, Professional applications.

Industrial sector specific solutions
- 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 available.

PNECs
- No PNECs available.

Date of issue/Date of revision
- 27/03/2015
SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

**Appropriate engineering controls**: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures**

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

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

- **Skin protection**: 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.

- **Hand 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.

- **Body 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.

- **Respiratory protection**: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

- **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.

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

**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

**Appearance**

- **Physical state**: Oligo aCGH Wash Buffer 1 Liquid. Oligo aCGH Wash Buffer 2 Liquid.

- **Colour**: Oligo aCGH Wash Buffer 1 Not available. Oligo aCGH Wash Buffer 2 Not available.

- **Odour**: Oligo aCGH Wash Buffer 1 Not available. Oligo aCGH Wash Buffer 2 Not available.

- **Odour threshold**: Oligo aCGH Wash Buffer 1 Not available. Oligo aCGH Wash Buffer 2 Not available.

- **pH**: Oligo aCGH Wash Buffer 1 8.2 to 8.6 Oligo aCGH Wash Buffer 2 8 to 8.4
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Buffer 1</th>
<th>Buffer 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td>0°C</td>
<td>0°C</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>100°C</td>
<td>100°C</td>
</tr>
<tr>
<td><strong>Flash point</strong></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>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></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>
</tr>
<tr>
<td><strong>Vapour pressure</strong></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>
</tr>
<tr>
<td><strong>Relative density</strong></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>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></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>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></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>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
SECTION 9: Physical and chemical properties

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity
- Oligo aCGH Wash Buffer 1
- Oligo aCGH Wash Buffer 2
No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability
- Oligo aCGH Wash Buffer 1
- Oligo aCGH Wash Buffer 2
The product is stable.

10.3 Possibility of hazardous reactions
- Oligo aCGH Wash Buffer 1
- Oligo aCGH Wash Buffer 2
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
- Oligo aCGH Wash Buffer 1
- Oligo aCGH Wash Buffer 2
No specific data.

10.5 Incompatible materials
- Oligo aCGH Wash Buffer 1
- Oligo aCGH Wash Buffer 2
No specific data.

10.6 Hazardous decomposition products
- Oligo aCGH Wash Buffer 1
- Oligo aCGH Wash Buffer 2
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
- Not available.

Acute toxicity estimates
- Not available.

Irritation/Corrosion
- Conclusion/Summary: Not available.

Sensitiser
- Conclusion/Summary: Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity
- Not available.

Specific target organ toxicity (single exposure)
- Not available.

Specific target organ toxicity (repeated exposure)
- Not available.

Aspiration hazard
- Not available.
## SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Information on the likely routes of exposure</th>
<th>Oligo aCGH Wash Buffer 1</th>
<th>Oligo aCGH Wash Buffer 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Potential acute health effects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>*</td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>*</td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>*</td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>*</td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

| Symptoms related to the physical, chemical and toxicological characteristics |
|---|---|---|
| **Inhalation** | Oligo aCGH Wash Buffer 1 | No specific data. |
| *| Oligo aCGH Wash Buffer 2 | No specific data. |
| **Ingestion** | Oligo aCGH Wash Buffer 1 | No specific data. |
| *| Oligo aCGH Wash Buffer 2 | No specific data. |
| **Skin contact** | Oligo aCGH Wash Buffer 1 | No specific data. |
| *| Oligo aCGH Wash Buffer 2 | No specific data. |
| **Eye contact** | Oligo aCGH Wash Buffer 1 | No specific data. |
| *| Oligo aCGH Wash Buffer 2 | No specific data. |

| Delayed and immediate effects and also chronic effects from short and long term exposure |
|---|---|---|
| **Short term exposure** | Not available. | Not available. |

| **Long term exposure** | Not available. | Not available. |

| **Potential chronic health effects** |
|---|---|---|
| **General** | Oligo aCGH Wash Buffer 1 | No known significant effects or critical hazards. |
| *| Oligo aCGH Wash Buffer 2 | No known significant effects or critical hazards. |
| **Carcinogenicity** | Oligo aCGH Wash Buffer 1 | No known significant effects or critical hazards. |
| *| Oligo aCGH Wash Buffer 2 | No known significant effects or critical hazards. |

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SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Mutagenicity</th>
<th>Oligo aCGH Wash Buffer 1</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Developmental effects</td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Fertility effects</td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Toxicokinetics</td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>Absorption</td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>Not available.</td>
</tr>
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<td></td>
<td>Oligo aCGH Wash Buffer 2</td>
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<tr>
<td>Distribution</td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
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<td>Not available.</td>
</tr>
<tr>
<td>Metabolism</td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Oligo aCGH Wash Buffer 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>Elimination</td>
<td>Oligo aCGH Wash Buffer 1</td>
<td>Not available.</td>
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SECTION 12: Ecological information

12.1 Toxicity
Conclusion/Summary : Not available.

12.2 Persistence and degradability
Conclusion/Summary : Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Soil/water partition coefficient (KOC) : Not available.
Mobility : Not available.

12.5 Results of PBT and vPvB assessment
PBT : Not applicable.
vPvB : Not applicable.

Date of issue/Date of revision : 27/03/2015
SECTION 12: Ecological information

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: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

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. 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 73/78 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

None of the components are listed.

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

Not applicable.

Other EU regulations

Europe inventory: All components are listed or exempted.

Seveso II Directive

This product is not controlled under the Seveso II Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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SECTION 15: Regulatory information

Montreal Protocol (Annexes A, B, C, E)
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

International lists
National inventory

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</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]

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Date of issue/Date of revision : 27/03/2015

Date of previous issue : 21/06/2013.

Version : 4

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