SAFETY DATA SHEET
Agilent Cell Fluorescence Checkout Kit, Part Number 5067-1520

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

1.1 Product identifier

Product name: Agilent Cell Fluorescence Checkout Kit, Part Number 5067-1520
Part No. (Kit): 5067-1520
Part No.:
- Chip Priming Solution: Not available.
- Focusing Dye Solution: Not available.
- Blue Beads: Not available.
- Cell Buffer: Not available.

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. Research and Development</td>
</tr>
<tr>
<td>Chip Priming Solution: 1 x 500 μl</td>
</tr>
<tr>
<td>Focusing Dye Solution: 1 x 500 μl</td>
</tr>
<tr>
<td>Blue Beads: 1 x 250 μl</td>
</tr>
<tr>
<td>Cell Buffer: 2 x 2 ml</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:
- Chip Priming Solution: Mixture
- Focusing Dye Solution: Mixture
- Blue Beads: Mixture
- Cell Buffer: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.

Ingredients of unknown toxicity:
- Chip Priming Solution: Not applicable.
- Focusing Dye Solution: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 19%
- Blue Beads: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9%
- Cell Buffer: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 19%

Date of issue/Date of revision: 30/07/2014
**SECTION 2: Hazards identification**

### Ingredients of unknown ecotoxicity

- Chip Priming Solution: Not classified.
- Focusing Dye Solution: Not classified.
- Blue Beads: Not classified.
- Cell Buffer: Not classified.

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

- **Chip Priming Solution**: The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
- **Focusing Dye Solution**: The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
- **Blue Beads**: The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
- **Cell Buffer**: The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

### Classification

- **Chip Priming Solution**: Not classified.
- **Focusing Dye Solution**: Not classified.
- **Blue Beads**: Not classified.
- **Cell Buffer**: 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.

### 2.2 Label elements

#### Signal word

- Chip Priming Solution: No signal word.
- Focusing Dye Solution: No signal word.
- Blue Beads: No signal word.
- Cell Buffer: No signal word.

#### Hazard statements

- Chip Priming Solution: No known significant effects or critical hazards.
- Focusing Dye Solution: No known significant effects or critical hazards.
- Blue Beads: No known significant effects or critical hazards.
- Cell Buffer: No known significant effects or critical hazards.

#### Precautionary statements

##### Prevention

- Chip Priming Solution: Not applicable.
- Focusing Dye Solution: Not applicable.
- Blue Beads: Not applicable.
- Cell Buffer: Not applicable.

##### Response

- Chip Priming Solution: Not applicable.
- Focusing Dye Solution: Not applicable.
- Blue Beads: Not applicable.
- Cell Buffer: Not applicable.

##### Storage

- Chip Priming Solution: Not applicable.
- Focusing Dye Solution: Not applicable.
- Blue Beads: Not applicable.
- Cell Buffer: Not applicable.

##### Disposal

- Chip Priming Solution: Not applicable.
- Focusing Dye Solution: Not applicable.
- Blue Beads: Not applicable.
- Cell Buffer: Not applicable.

### Hazardous ingredients

- No hazardous ingredient

### Supplemental label elements

- Chip Priming Solution: Not applicable.
- Focusing Dye Solution: Not applicable.
- Blue Beads: Not applicable.
- Cell Buffer: Not applicable.

### Special packaging requirements

- Chip Priming Solution: Not applicable.
- Focusing Dye Solution: Not applicable.
- Blue Beads: Not applicable.
- Cell Buffer: Not applicable.
SECTION 2: Hazards identification

2.3 Other hazards

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Other hazards which do not result in classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</td>
<td>None known.</td>
</tr>
<tr>
<td>Focusing Dye Solution</td>
<td>None known.</td>
</tr>
<tr>
<td>Blue Beads</td>
<td>None known.</td>
</tr>
<tr>
<td>Cell Buffer</td>
<td>None known.</td>
</tr>
</tbody>
</table>

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</td>
<td>1. Substance classified with a health or environmental hazard</td>
</tr>
<tr>
<td>Focusing Dye Solution</td>
<td>2. Substance with a workplace exposure limit</td>
</tr>
<tr>
<td></td>
<td>5. Substance of equivalent concern</td>
</tr>
</tbody>
</table>

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.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</td>
<td>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.</td>
</tr>
<tr>
<td>Focusing Dye Solution</td>
<td>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.</td>
</tr>
<tr>
<td>Blue Beads</td>
<td>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.</td>
</tr>
<tr>
<td>Cell Buffer</td>
<td>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.</td>
</tr>
</tbody>
</table>

Inhalation

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Focusing Dye Solution</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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>
<tr>
<td>Blue Beads</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Cell Buffer</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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>
**SECTION 4: First aid measures**

### Skin contact

<table>
<thead>
<tr>
<th>Substance</th>
<th>First aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Focusing Dye Solution</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Blue Beads</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Cell Buffer</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

### Ingestion

<table>
<thead>
<tr>
<th>Substance</th>
<th>First aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</td>
<td>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.</td>
</tr>
<tr>
<td>Focusing Dye Solution</td>
<td>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.</td>
</tr>
<tr>
<td>Blue Beads</td>
<td>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.</td>
</tr>
<tr>
<td>Cell Buffer</td>
<td>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.</td>
</tr>
</tbody>
</table>

### Protection of first-aiders

<table>
<thead>
<tr>
<th>Substance</th>
<th>Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Focusing Dye Solution</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Blue Beads</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Cell Buffer</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Chip Priming Solution</th>
<th>Focusing Dye Solution</th>
<th>Blue Beads</th>
<th>Cell Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</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>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards.</td>
<td>Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</td>
<td>No known significant effects or critical hazards.</td>
<td>Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</td>
</tr>
<tr>
<td>Skin contact</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>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

Ingestion:
- Chip Priming Solution: No known significant effects or critical hazards.
- Focusing Dye Solution: No known significant effects or critical hazards.
- Blue Beads: No known significant effects or critical hazards.
- Cell Buffer: No known significant effects or critical hazards.

Over-exposure signs/symptoms:

Eye contact:
- Chip Priming Solution: No specific data.
- Focusing Dye Solution: No specific data.
- Blue Beads: No specific data.
- Cell Buffer: No specific data.

Inhalation:
- Chip Priming Solution: No specific data.
- Focusing Dye Solution: No specific data.
- Blue Beads: No specific data.
- Cell Buffer: No specific data.

Skin contact:
- Chip Priming Solution: No specific data.
- Focusing Dye Solution: No specific data.
- Blue Beads: No specific data.
- Cell Buffer: No specific data.

Ingestion:
- Chip Priming Solution: No specific data.
- Focusing Dye Solution: No specific data.
- Blue Beads: No specific data.
- Cell Buffer: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician:
- Chip Priming Solution: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Focusing Dye Solution: 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.
- Blue Beads: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Cell Buffer: 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.

Specific treatments:
- Chip Priming Solution: No specific treatment.
- Focusing Dye Solution: No specific treatment.
- Blue Beads: No specific treatment.
- Cell Buffer: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
- Chip Priming Solution: Use an extinguishing agent suitable for the surrounding fire.
- Focusing Dye Solution: Use an extinguishing agent suitable for the surrounding fire.
- Blue Beads: Use an extinguishing agent suitable for the surrounding fire.
- Cell Buffer: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
- Chip Priming Solution: None known.
- Focusing Dye Solution: None known.
- Blue Beads: None known.
- Cell Buffer: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture:
- Chip Priming Solution: In a fire or if heated, a pressure increase will occur and the container may burst.
- Focusing Dye Solution: In a fire or if heated, a pressure increase will occur and the container may burst.
- Blue Beads: In a fire or if heated, a pressure increase will occur and the container may burst.
- Cell Buffer: In a fire or if heated, a pressure increase will occur and the container may burst.
SECTION 5: Firefighting measures

<table>
<thead>
<tr>
<th>Hazardous combustion products</th>
<th>Chip Priming Solution</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Focusing Dye Solution</td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds.</td>
</tr>
<tr>
<td>Blue Beads</td>
<td></td>
<td>No specific data.</td>
</tr>
<tr>
<td>Cell Buffer</td>
<td></td>
<td>Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds.</td>
</tr>
</tbody>
</table>

5.3 Advice for firefighters

Special precautions for fire-fighters:

- Chip Priming Solution: 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.
- Focusing Dye Solution: 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.
- Blue Beads: 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.
- Cell Buffer: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:

- Chip Priming Solution: 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.
- Focusing Dye Solution: 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.
- Blue Beads: 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.
- Cell Buffer: 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:

- Chip Priming Solution: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- Focusing Dye Solution: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SECTION 6: Accidental release measures

6.2 Environmental precautions

<table>
<thead>
<tr>
<th>For emergency responders</th>
<th>Chip Priming Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Beads</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>Cell Buffer</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>
</tbody>
</table>

6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up**

<table>
<thead>
<tr>
<th>Chip Priming Solution</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Focusing Dye Solution</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Blue Beads</th>
</tr>
</thead>
<tbody>
<tr>
<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>

<table>
<thead>
<tr>
<th>Cell Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<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>
SECTION 6: Accidental release measures

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

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Advice on general occupational hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</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>Focusing Dye Solution</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>Blue Beads</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>Cell Buffer</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>
</tbody>
</table>

7.2 Conditions for safe storage, including any incompatibilities

| Chip Priming Solution     | Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |
| Focusing Dye Solution     | Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |
| Blue Beads                | Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |
| Cell Buffer               | Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |

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SECTION 7: Handling and storage

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.

Cell Buffer

Storage temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations

Industrial applications, Professional applications.

Chip Priming Solution

Focusing Dye Solution

Blue Beads

Cell Buffer

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.

Derived effect levels

No DNELs available.

Predicted effect concentrations

No PNECs available.

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.
SECTION 8: Exposure controls/personal protection

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.

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: 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.

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:
- Chip Priming Solution: Liquid.
- Focusing Dye Solution: Liquid.
- Blue Beads: Liquid.
- Cell Buffer: Liquid.

Colour:
- Chip Priming Solution: Not available.
- Focusing Dye Solution: Blue.
- Blue Beads: Not available.
- Cell Buffer: Not available.

Odour:
- Chip Priming Solution: Not available.
- Focusing Dye Solution: Not available.
- Blue Beads: Not available.
- Cell Buffer: Not available.

Odour threshold:
- Chip Priming Solution: Not available.
- Focusing Dye Solution: Not available.
- Blue Beads: Not available.
- Cell Buffer: Not available.

pH:
- Chip Priming Solution: Not available.
- Focusing Dye Solution: Not available.
- Blue Beads: Not available.
- Cell Buffer: Not available.

Melting point/freezing point:
- Chip Priming Solution: 0°C
- Focusing Dye Solution: 0°C
- Blue Beads: Not available.
- Cell Buffer: Not available.

Initial boiling point and boiling range:
- Chip Priming Solution: 100°C
- Focusing Dye Solution: 100°C
- Blue Beads: Not available.
- Cell Buffer: Not available.

Flash point:
- Chip Priming Solution: Not available.
- Focusing Dye Solution: Not available.
- Blue Beads: Not available.
- Cell Buffer: Not available.

Evaporation rate:
- Chip Priming Solution: Not available.
- Focusing Dye Solution: Not available.
- Blue Beads: Not available.
- Cell Buffer: Not available.

Date of issue/Date of revision: 30/07/2014
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Chip Priming Solution</th>
<th>Focusing Dye Solution</th>
<th>Blue Beads</th>
<th>Cell Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</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>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</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>
<td>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>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

9.2 Other information
No additional information.

### SECTION 10: Stability and reactivity

10.1 Reactivity
No specific test data related to reactivity available for this product or its ingredients.

<table>
<thead>
<tr>
<th>Product</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Priming Solution</td>
<td></td>
</tr>
<tr>
<td>Focusing Dye Solution</td>
<td></td>
</tr>
<tr>
<td>Blue Beads</td>
<td></td>
</tr>
<tr>
<td>Cell Buffer</td>
<td></td>
</tr>
</tbody>
</table>

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SECTION 10: Stability and reactivity

10.2 Chemical stability
- Chip Priming Solution: The product is stable.
- Focusing Dye Solution: The product is stable.
- Blue Beads: The product is stable.
- Cell Buffer: The product is stable.

10.3 Possibility of hazardous reactions
- Chip Priming Solution: Under normal conditions of storage and use, hazardous reactions will not occur.
- Focusing Dye Solution: Under normal conditions of storage and use, hazardous reactions will not occur.
- Blue Beads: Under normal conditions of storage and use, hazardous reactions will not occur.
- Cell Buffer: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
- Chip Priming Solution: No specific data.
- Focusing Dye Solution: No specific data.
- Blue Beads: No specific data.
- Cell Buffer: No specific data.

10.5 Incompatible materials
- Chip Priming Solution: No specific data.
- Focusing Dye Solution: No specific data.
- Blue Beads: No specific data.
- Cell Buffer: No specific data.

10.6 Hazardous decomposition products
- Chip Priming Solution: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Focusing Dye Solution: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Blue Beads: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Cell Buffer: 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.

Information on the likely routes of exposure
Not available.

Potential acute health effects

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**SECTION 11: Toxicological information**

### Inhalation
- **Chip Priming Solution**: No known significant effects or critical hazards.
- **Focusing Dye Solution**: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- **Blue Beads**: No known significant effects or critical hazards.
- **Cell Buffer**: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

### Ingestion
- **Chip Priming Solution**: No known significant effects or critical hazards.
- **Focusing Dye Solution**: No known significant effects or critical hazards.
- **Blue Beads**: No known significant effects or critical hazards.
- **Cell Buffer**: No known significant effects or critical hazards.

### Skin contact
- **Chip Priming Solution**: No known significant effects or critical hazards.
- **Focusing Dye Solution**: No known significant effects or critical hazards.
- **Blue Beads**: No known significant effects or critical hazards.
- **Cell Buffer**: No known significant effects or critical hazards.

### Eye contact
- **Chip Priming Solution**: No known significant effects or critical hazards.
- **Focusing Dye Solution**: No known significant effects or critical hazards.
- **Blue Beads**: No known significant effects or critical hazards.
- **Cell Buffer**: No known significant effects or critical hazards.

### General
- **Chip Priming Solution**: No known significant effects or critical hazards.
- **Focusing Dye Solution**: No known significant effects or critical hazards.
- **Blue Beads**: No known significant effects or critical hazards.
- **Cell Buffer**: No known significant effects or critical hazards.

### Carcinogenicity
- **Chip Priming Solution**: No known significant effects or critical hazards.
- **Focusing Dye Solution**: No known significant effects or critical hazards.
- **Blue Beads**: No known significant effects or critical hazards.
- **Cell Buffer**: No known significant effects or critical hazards.

### Mutagenicity
- **Chip Priming Solution**: No known significant effects or critical hazards.
- **Focusing Dye Solution**: No known significant effects or critical hazards.
- **Blue Beads**: No known significant effects or critical hazards.
- **Cell Buffer**: No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics
- **Inhalation**: No specific data.
- **Ingestion**: No specific data.
- **Skin contact**: No specific data.
- **Eye contact**: No specific data.

### Delayed and immediate effects and also 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
- **General**: No known significant effects or critical hazards.
- **Carcinogenicity**: No known significant effects or critical hazards.
- **Mutagenicity**: No known significant effects or critical hazards.
### SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Category</th>
<th>Component</th>
<th>Toxicity Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Teratogenicity</strong></td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Chip Priming Solution</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Focusing Dye Solution</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Blue Beads</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Cell Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Developmental effects</strong></td>
<td>Chip Priming Solution</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Focusing Dye Solution</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Blue Beads</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Cell Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Fertility effects</strong></td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Chip Priming Solution</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Focusing Dye Solution</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Blue Beads</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Cell Buffer</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Toxicokinetics

<table>
<thead>
<tr>
<th>Process</th>
<th>Component</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Absorption</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chip Priming Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Focusing Dye Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Blue Beads</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Cell Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Distribution</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chip Priming Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Focusing Dye Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Blue Beads</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Cell Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Metabolism</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chip Priming Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Focusing Dye Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Blue Beads</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Cell Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Elimination</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chip Priming Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Focusing Dye Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Blue Beads</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Cell Buffer</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### 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 (K\textsubscript{OC})**: 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: 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

Regulatory information

ADR/RID / IMDG / IATA: Not regulated.

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

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: Not determined.

Black List Chemicals: Not listed

Priority List Chemicals: Not listed

Integrated pollution prevention and control list (IPPC) - Air: Not listed

Integrated pollution prevention and control list (IPPC) - Water: Not listed

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

Date of issue/Date of revision: 30/07/2014
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>Not classified.</td>
<td></td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 30/07/2014

**Date of previous issue**: 26/04/2012.

**Version**: 3

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