SAFETY DATA SHEET
Fluoresence Reference Set (6 BF), Part Number 6610010300

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

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier

**Product name**: Fluoresence Reference Set (6 BF), Part Number 6610010300

**Part No. (Kit)**: 6610010300

**Part No.**

- Block 1 - Anthracene - Napthalene
- Block 2 - Ovalene
- Block 3 - p-Terphenyl
- Block 4 - Tetraphenylbutadiene
- Block 5 - Compound 610
- Block 6 - Rhodamine

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical chemistry.</td>
<td></td>
</tr>
<tr>
<td>Block 1 - Anthracene - Napthalene</td>
<td>8 g</td>
</tr>
<tr>
<td>Block 2 - Ovalene</td>
<td>8 g</td>
</tr>
<tr>
<td>Block 3 - p-Terphenyl</td>
<td>8 g</td>
</tr>
<tr>
<td>Block 4 - Tetraphenylbutadiene</td>
<td>8 g</td>
</tr>
<tr>
<td>Block 5 - Compound 610</td>
<td>8 g</td>
</tr>
<tr>
<td>Block 6 - Rhodamine</td>
<td>8 g</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

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

**Date of issue/Date of revision**: 02/08/2016

1/23
SECTION 2: Hazards identification

Product definition:

- Block 1: Anthracene - Napthalene
- Block 2: Ovalene
- Block 3: p-Terphenyl
- Block 4: Tetraphenylbutadiene
- Block 5: Compound 610
- Block 6: Rhodamine

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

- Not classified.

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

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

2.2 Label elements

Signal word:

- Block 1: Anthracene - Napthalene: No signal word.
- Block 2: Ovalene: No signal word.
- Block 3: p-Terphenyl: No signal word.
- Block 4: Tetraphenylbutadiene: No signal word.
- Block 5: Compound 610: No signal word.
- Block 6: Rhodamine: No signal word.

Hazard statements:

- Block 1: Anthracene - Napthalene: No known significant effects or critical hazards.
- Block 2: Ovalene: No known significant effects or critical hazards.
- Block 3: p-Terphenyl: No known significant effects or critical hazards.
- Block 4: Tetraphenylbutadiene: No known significant effects or critical hazards.
- Block 5: Compound 610: No known significant effects or critical hazards.
- Block 6: Rhodamine: No known significant effects or critical hazards.

Precautionary statements:

Prevention:

- Block 1: Anthracene - Napthalene: Not applicable.
- Block 2: Ovalene: Not applicable.
- Block 3: p-Terphenyl: Not applicable.
- Block 4: Tetraphenylbutadiene: Not applicable.
- Block 5: Compound 610: Not applicable.
- Block 6: Rhodamine: Not applicable.

Response:

- Block 1: Anthracene - Napthalene: Not applicable.
- Block 2: Ovalene: Not applicable.
- Block 3: p-Terphenyl: Not applicable.
- Block 4: Tetraphenylbutadiene: Not applicable.
- Block 5: Compound 610: Not applicable.
- Block 6: Rhodamine: Not applicable.

Storage:

- Block 1: Anthracene - Napthalene: Not applicable.
- Block 2: Ovalene: Not applicable.
- Block 3: p-Terphenyl: Not applicable.
- Block 4: Tetraphenylbutadiene: Not applicable.
- Block 5: Compound 610: Not applicable.
- Block 6: Rhodamine: Not applicable.

Date of issue/Date of revision: 02/08/2016
### SECTION 2: Hazards identification

<table>
<thead>
<tr>
<th>Disposal</th>
<th>Block 1 - Anthracene -Napthalene</th>
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<tbody>
<tr>
<td></td>
<td>Block 2 - Ovalene</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
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<td>Not applicable.</td>
</tr>
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<td></td>
<td>Block 4 - Tetraphenybutadiene</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Block 5 - Compound 610</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Block 6 - Rhodamine</td>
<td>Not applicable.</td>
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<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>No hazardous ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplemental label elements</td>
<td>Block 1 - Anthracene -Napthalene</td>
</tr>
<tr>
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<td>Block 2 - Ovalene</td>
</tr>
<tr>
<td></td>
<td>Block 3 - p-Terphenyl</td>
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<td></td>
<td>Block 5 - Compound 610</td>
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<tr>
<td></td>
<td>Block 6 - Rhodamine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</th>
<th>Block 1 - Anthracene -Napthalene</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Block 2 - Ovalene</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Block 3 - p-Terphenyl</td>
<td>Not applicable.</td>
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<tr>
<td></td>
<td>Block 5 - Compound 610</td>
<td>Not applicable.</td>
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<td></td>
<td>Block 6 - Rhodamine</td>
<td>Not applicable.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Special packaging requirements</th>
<th>Block 1 - Anthracene -Napthalene</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Block 2 - Ovalene</td>
<td>Not applicable.</td>
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<tr>
<td></td>
<td>Block 3 - p-Terphenyl</td>
<td>Not applicable.</td>
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<tr>
<td></td>
<td>Block 4 - Tetraphenybutadiene</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Block 5 - Compound 610</td>
<td>Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Block 6 - Rhodamine</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### 2.3 Other hazards

<table>
<thead>
<tr>
<th>Other hazards which do not result in classification</th>
<th>Block 1 - Anthracene -Napthalene</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Block 2 - Ovalene</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Block 3 - p-Terphenyl</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Block 4 - Tetraphenybutadiene</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Block 5 - Compound 610</td>
<td>None known.</td>
</tr>
<tr>
<td></td>
<td>Block 6 - Rhodamine</td>
<td>None known.</td>
</tr>
</tbody>
</table>

### SECTION 3: Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product’s directions for use it may present potential health and safety hazards.

<table>
<thead>
<tr>
<th>3.2 Mixtures</th>
<th>Block 1 - Anthracene -Napthalene</th>
<th>Mixture (encapsulated in article)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Block 2 - Ovalene</td>
<td>Mixture (encapsulated in article)</td>
</tr>
<tr>
<td></td>
<td>Block 3 - p-Terphenyl</td>
<td>Mixture (encapsulated in article)</td>
</tr>
<tr>
<td></td>
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<td>Mixture (encapsulated in article)</td>
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<tr>
<td></td>
<td>Block 6 - Rhodamine</td>
<td>Mixture (encapsulated in article)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>No hazardous ingredient</th>
</tr>
</thead>
</table>

**Date of issue/Date of revision**: 02/08/2016
SECTION 3: Composition/information on ingredients

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.

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
- Block 1 - Anthracene - Naphthalene
  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.
- Block 2 - Ovalene
  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.
- Block 3 - p-Terphenyl
  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.
- Block 4 - Tetraphenylbutadiene
  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.
- Block 5 - Compound 610
  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.
- Block 6 - Rhodamine
  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
- Block 1 - Anthracene - Naphthalene
  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Block 2 - Ovalene
  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Block 3 - p-Terphenyl
  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Block 4 - Tetraphenylbutadiene
  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Block 5 - Compound 610
  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Block 6 - Rhodamine
  Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact
- Block 1 - Anthracene - Naphthalene
  Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Block 2 - Ovalene
  Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Block 3 - p-Terphenyl
  Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Block 4 - Tetraphenylbutadiene
  Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Block 5 - Compound 610
  Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Date of issue/Date of revision: 02/08/2016
SECTION 4: First aid measures

Ingestion:

Block 1 - Anthracene - Napthalene
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.

Block 2 - Ovalene
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.

Block 3 - p-Terphenyl
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.

Block 4 - Tetraphenylbutadiene
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.

Block 5 - Compound 610
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.

Block 6 - Rhodamine
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:

Block 1 - Anthracene - Napthalene
No action shall be taken involving any personal risk or without suitable training.

Block 2 - Ovalene
No action shall be taken involving any personal risk or without suitable training.

Block 3 - p-Terphenyl
No action shall be taken involving any personal risk or without suitable training.

Block 4 - Tetraphenylbutadiene
No action shall be taken involving any personal risk or without suitable training.

Block 5 - Compound 610
No action shall be taken involving any personal risk or without suitable training.

Block 6 - Rhodamine
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:

Block 1 - Anthracene - Napthalene
No known significant effects or critical hazards.

Block 2 - Ovalene
No known significant effects or critical hazards.

Block 3 - p-Terphenyl
No known significant effects or critical hazards.

Block 4 - Tetraphenylbutadiene
No known significant effects or critical hazards.

Block 5 - Compound 610
No known significant effects or critical hazards.

Block 6 - Rhodamine
No known significant effects or critical hazards.
**SECTION 4: First aid measures**

### Inhalation

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<tr>
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### Skin contact

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### Over-exposure signs/symptoms

#### Eye contact

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<td>1 - Anthracene - Napthalene</td>
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<td>6 - Rhodamine</td>
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</tr>
</tbody>
</table>

### 4.3 Indication of any immediate medical attention and special treatment needed

**Date of issue/Date of revision**: 02/08/2016

**6/23**
**SECTION 4: First aid measures**

**Notes to physician**
- Block 1 - Anthracene - Napthalene: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Block 2 - Ovalene: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Block 3 - p-Terphenyl: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Block 4 - Tetraphenylbutadiene: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Block 5 - Compound 610: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Block 6 - Rhodamine: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
- Block 1 - Anthracene - Napthalene: No specific treatment.
- Block 2 - Ovalene: No specific treatment.
- Block 3 - p-Terphenyl: No specific treatment.
- Block 4 - Tetraphenylbutadiene: No specific treatment.
- Block 5 - Compound 610: No specific treatment.
- Block 6 - Rhodamine: No specific treatment.

**SECTION 5: Firefighting measures**

**Suitable extinguishing media**
- Block 1 - Anthracene - Napthalene: Use an extinguishing agent suitable for the surrounding fire.
- Block 2 - Ovalene: Use an extinguishing agent suitable for the surrounding fire.
- Block 3 - p-Terphenyl: Use an extinguishing agent suitable for the surrounding fire.
- Block 4 - Tetraphenylbutadiene: Use an extinguishing agent suitable for the surrounding fire.
- Block 5 - Compound 610: Use an extinguishing agent suitable for the surrounding fire.
- Block 6 - Rhodamine: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**
- Block 1 - Anthracene - Napthalene: None known.
- Block 2 - Ovalene: None known.
- Block 3 - p-Terphenyl: None known.
- Block 4 - Tetraphenylbutadiene: None known.
- Block 5 - Compound 610: None known.
- Block 6 - Rhodamine: None known.

**5.2 Special hazards arising from the substance or mixture**
- Block 1 - Anthracene - Napthalene: No specific fire or explosion hazard.
- Block 2 - Ovalene: No specific fire or explosion hazard.
- Block 3 - p-Terphenyl: No specific fire or explosion hazard.
- Block 4 - Tetraphenylbutadiene: No specific fire or explosion hazard.
- Block 5 - Compound 610: No specific fire or explosion hazard.
- Block 6 - Rhodamine: No specific fire or explosion hazard.

**Hazardous combustion products**
- Block 1 - Anthracene - Napthalene: Decomposition products may include the following materials: carbon dioxide, carbon monoxide.
- Block 2 - Ovalene: Decomposition products may include the following materials: carbon dioxide, carbon monoxide.
- Block 3 - p-Terphenyl: Decomposition products may include the following materials: carbon dioxide, carbon monoxide.
- Block 4 - Tetraphenylbutadiene: Decomposition products may include the following materials: carbon dioxide.

**Date of issue/Date of revision**: 02/08/2016
5.3 Advice for firefighters

**Special precautions for fire-fighters**

- **Block 1 - Anthracene -Napthalene** 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.
- **Block 2 - Ovalene** 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.
- **Block 3 - p-Terphenyl** 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.
- **Block 4 -Tetraphenylbutadiene** 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.
- **Block 5 - Compound 610** 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.
- **Block 6 - Rhodamine** 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**

- **Block 1 - Anthracene -Napthalene** 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.
- **Block 2 - Ovalene** 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.
- **Block 3 - p-Terphenyl** 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.
- **Block 4 -Tetraphenylbutadiene** 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.
- **Block 5 - Compound 610** 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.
- **Block 6 - Rhodamine** 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

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>Block 1 - Anthracene - Napthalene</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Block 2 - Ovalene</td>
<td>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.</td>
</tr>
<tr>
<td>Block 3 - p-Terphenyl</td>
<td>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.</td>
</tr>
<tr>
<td>Block 4 - Tetraphenybutadiene</td>
<td>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.</td>
</tr>
<tr>
<td>Block 5 - Compound 610</td>
<td>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.</td>
</tr>
<tr>
<td>Block 6 - Rhodamine</td>
<td>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.</td>
</tr>
<tr>
<td>For emergency responders</td>
<td>Block 1 - Anthracene - Napthalene</td>
</tr>
<tr>
<td></td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>Block 2 - Ovalene</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>Block 3 - p-Terphenyl</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>Block 4 - Tetraphenybutadiene</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>Block 5 - Compound 610</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
<tr>
<td>Block 6 - Rhodamine</td>
<td>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 &quot;For non-emergency personnel&quot;.</td>
</tr>
</tbody>
</table>
SECTION 6: Accidental release measures

6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Block</th>
<th>Compound</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anthracene - Napthalene</td>
<td>Avoid dispersal of spill 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>2</td>
<td>Ovalene</td>
<td>Avoid dispersal of spill 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>3</td>
<td>p-Terphenyl</td>
<td>Avoid dispersal of spill 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>4</td>
<td>Tetraphenylbutadiene</td>
<td>Avoid dispersal of spill 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>5</td>
<td>Compound 610</td>
<td>Avoid dispersal of spill 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>6</td>
<td>Rhodamine</td>
<td>Avoid dispersal of spill 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 material for containment and cleaning up

Methods for cleaning up

<table>
<thead>
<tr>
<th>Block</th>
<th>Compound</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anthracene - Napthalene</td>
<td>Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>2</td>
<td>Ovalene</td>
<td>Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>3</td>
<td>p-Terphenyl</td>
<td>Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>4</td>
<td>Tetraphenylbutadiene</td>
<td>Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>5</td>
<td>Compound 610</td>
<td>Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>6</td>
<td>Rhodamine</td>
<td>Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste 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>Block</th>
<th>Compound</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anthracene - Napthalene</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>2</td>
<td>Ovalene</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>3</td>
<td>p-Terphenyl</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>4</td>
<td>Tetraphenylbutadiene</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>5</td>
<td>Compound 610</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>6</td>
<td>Rhodamine</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>

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**SECTION 7: Handling and storage**

**Advice on general occupational hygiene**

- **Block 1 - Anthracene - Napthalene**
  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.

- **Block 2 - Ovalene**
  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.

- **Block 3 - p-Terphenyl**
  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.

- **Block 4 - Tetraphenylbutadiene**
  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.

- **Block 5 - Compound 610**
  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.

- **Block 6 - Rhodamine**
  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**

- **Block 1 - Anthracene - Napthalene**
  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.

- **Block 2 - Ovalene**
  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.

- **Block 3 - p-Terphenyl**
  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.
SECTION 7: Handling and storage

Block 4 - Tetraphenylbutadiene
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.

Block 5 - Compound 610
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.

Block 6 - Rhodamine
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:
- Block 1 - Anthracene - Napthalene: Industrial applications, Professional applications.
- Block 2 - Ovalene: Industrial applications, Professional applications.
- Block 3 - p-Terphenyl: Industrial applications, Professional applications.
- Block 4 - Tetraphenylbutadiene: Industrial applications, Professional applications.
- Block 5 - Compound 610: Industrial applications, Professional applications.
- Block 6 - Rhodamine: Industrial applications, Professional applications.

Industrial sector specific solutions:
- Block 1 - Anthracene - Napthalene: Not applicable.
- Block 2 - Ovalene: Not applicable.
- Block 3 - p-Terphenyl: Not applicable.
- Block 4 - Tetraphenylbutadiene: Not applicable.
- Block 5 - Compound 610: Not applicable.
- Block 6 - Rhodamine: Not applicable.

SECTION 8: Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>No exposure limit value known.</td>
<td></td>
</tr>
</tbody>
</table>

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SECTION 8: Exposure controls/personal protection

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: 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
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: 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.

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
## SECTION 9: Physical and chemical properties

### Physical state

<table>
<thead>
<tr>
<th>Block</th>
<th>Physical state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Anthracene - Napthalene Solid. [(block)]</td>
</tr>
<tr>
<td>Block 2</td>
<td>Ovalene Solid. [(block)]</td>
</tr>
<tr>
<td>Block 3</td>
<td>p-Terphenyl Solid. [(block)]</td>
</tr>
<tr>
<td>Block 4</td>
<td>Tetraphenybutadiene Solid. [(block)]</td>
</tr>
<tr>
<td>Block 5</td>
<td>Compound 610 Solid. [(block)]</td>
</tr>
<tr>
<td>Block 6</td>
<td>Rhodamine Solid. [(block)]</td>
</tr>
</tbody>
</table>

### Colour

<table>
<thead>
<tr>
<th>Block</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Anthracene - Napthalene Transparent</td>
</tr>
<tr>
<td>Block 2</td>
<td>Ovalene Transparent</td>
</tr>
<tr>
<td>Block 3</td>
<td>p-Terphenyl Transparent</td>
</tr>
<tr>
<td>Block 4</td>
<td>Tetraphenybutadiene Transparent</td>
</tr>
<tr>
<td>Block 5</td>
<td>Compound 610 Transparent</td>
</tr>
<tr>
<td>Block 6</td>
<td>Rhodamine Transparent</td>
</tr>
</tbody>
</table>

### Odour

<table>
<thead>
<tr>
<th>Block</th>
<th>Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Anthracene - Napthalene Not available.</td>
</tr>
<tr>
<td>Block 2</td>
<td>Ovalene Not available.</td>
</tr>
<tr>
<td>Block 3</td>
<td>p-Terphenyl Not available.</td>
</tr>
<tr>
<td>Block 4</td>
<td>Tetraphenybutadiene Not available.</td>
</tr>
<tr>
<td>Block 5</td>
<td>Compound 610 Not available.</td>
</tr>
<tr>
<td>Block 6</td>
<td>Rhodamine Not available.</td>
</tr>
</tbody>
</table>

### Odour threshold

<table>
<thead>
<tr>
<th>Block</th>
<th>Odour threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Anthracene - Napthalene Not available.</td>
</tr>
<tr>
<td>Block 2</td>
<td>Ovalene Not available.</td>
</tr>
<tr>
<td>Block 3</td>
<td>p-Terphenyl Not available.</td>
</tr>
<tr>
<td>Block 4</td>
<td>Tetraphenybutadiene Not available.</td>
</tr>
<tr>
<td>Block 5</td>
<td>Compound 610 Not available.</td>
</tr>
<tr>
<td>Block 6</td>
<td>Rhodamine Not available.</td>
</tr>
</tbody>
</table>

### pH

<table>
<thead>
<tr>
<th>Block</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Anthracene - Napthalene Not available.</td>
</tr>
<tr>
<td>Block 2</td>
<td>Ovalene Not available.</td>
</tr>
<tr>
<td>Block 3</td>
<td>p-Terphenyl Not available.</td>
</tr>
<tr>
<td>Block 4</td>
<td>Tetraphenybutadiene Not available.</td>
</tr>
<tr>
<td>Block 5</td>
<td>Compound 610 Not available.</td>
</tr>
<tr>
<td>Block 6</td>
<td>Rhodamine Not available.</td>
</tr>
</tbody>
</table>

### Melting point/freezing point

<table>
<thead>
<tr>
<th>Block</th>
<th>Melting point/freezing point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Anthracene - Napthalene Not available.</td>
</tr>
<tr>
<td>Block 2</td>
<td>Ovalene Not available.</td>
</tr>
<tr>
<td>Block 3</td>
<td>p-Terphenyl Not available.</td>
</tr>
<tr>
<td>Block 4</td>
<td>Tetraphenybutadiene Not available.</td>
</tr>
<tr>
<td>Block 5</td>
<td>Compound 610 Not available.</td>
</tr>
<tr>
<td>Block 6</td>
<td>Rhodamine Not available.</td>
</tr>
</tbody>
</table>

### Initial boiling point and boiling range

<table>
<thead>
<tr>
<th>Block</th>
<th>Initial boiling point and boiling range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Anthracene - Napthalene Not available.</td>
</tr>
<tr>
<td>Block 2</td>
<td>Ovalene Not available.</td>
</tr>
<tr>
<td>Block 3</td>
<td>p-Terphenyl Not available.</td>
</tr>
<tr>
<td>Block 4</td>
<td>Tetraphenybutadiene Not available.</td>
</tr>
<tr>
<td>Block 5</td>
<td>Compound 610 Not available.</td>
</tr>
<tr>
<td>Block 6</td>
<td>Rhodamine Not available.</td>
</tr>
</tbody>
</table>

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SECTION 9: Physical and chemical properties

Flash point

Block 1 - Anthracene -Napthalene
Block 2 - Ovalene
Block 3 - p-Terphenyl
Block 4 - Tetraphenylbutadiene
Block 5 - Compound 610
Block 6 - Rhodamine

Evaporation rate

Block 1 - Anthracene -Napthalene
Block 2 - Ovalene
Block 3 - p-Terphenyl
Block 4 - Tetraphenylbutadiene
Block 5 - Compound 610
Block 6 - Rhodamine

Flammability (solid, gas)

Block 1 - Anthracene -Napthalene
Block 2 - Ovalene
Block 3 - p-Terphenyl
Block 4 - Tetraphenylbutadiene
Block 5 - Compound 610
Block 6 - Rhodamine

Upper/lower flammability or explosive limits

Block 1 - Anthracene -Napthalene
Block 2 - Ovalene
Block 3 - p-Terphenyl
Block 4 - Tetraphenylbutadiene
Block 5 - Compound 610
Block 6 - Rhodamine

Vapour pressure

Block 1 - Anthracene -Napthalene
Block 2 - Ovalene
Block 3 - p-Terphenyl
Block 4 - Tetraphenylbutadiene
Block 5 - Compound 610
Block 6 - Rhodamine

Vapour density

Block 1 - Anthracene -Napthalene
Block 2 - Ovalene
Block 3 - p-Terphenyl
Block 4 - Tetraphenylbutadiene
Block 5 - Compound 610
Block 6 - Rhodamine

Relative density

Block 1 - Anthracene -Napthalene
Block 2 - Ovalene
Block 3 - p-Terphenyl
Block 4 - Tetraphenylbutadiene
Block 5 - Compound 610
Block 6 - Rhodamine

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### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Solubility(ies)</th>
<th>Block 1 - Anthracene - Naphthalene</th>
<th>Insoluble in the following materials: cold water and hot water.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Block 2 - Ovalene</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>Block 3 - p-Terphenyl</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>Block 4 - Tetraphenylibutadiene</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>Block 5 - Compound 610</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td></td>
<td>Block 6 - Rhodamine</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient: n-octanol/water</th>
<th>Block 1 - Anthracene - Naphthalene</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Block 2 - Ovalene</td>
<td>Not available.</td>
</tr>
<tr>
<td></td>
<td>Block 3 - p-Terphenyl</td>
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</tr>
<tr>
<td></td>
<td>Block 4 - Tetraphenylibutadiene</td>
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</tr>
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<td>Block 3 - p-Terphenyl</td>
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<tr>
<td></td>
<td>Block 5 - Compound 610</td>
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<td>Block 3 - p-Terphenyl</td>
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</tr>
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<td></td>
<td>Block 4 - Tetraphenylibutadiene</td>
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<td>Block 5 - Compound 610</td>
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<tr>
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<tr>
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<td>Block 6 - Rhodamine</td>
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</table>
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SECTION 9: Physical and chemical properties

### Oxidising properties

- **Block 1 - Anthracene - Naphthalene**
  - Not available.
- **Block 2 - Ovalene**
  - Not available.
- **Block 3 - p-Terphenyl**
  - Not available.
- **Block 4 - Tetraphenylbutadiene**
  - Not available.
- **Block 5 - Compound 610**
  - Not available.
- **Block 6 - Rhodamine**
  - Not available.

### 9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

#### 10.1 Reactivity

- **Block 1 - Anthracene - Naphthalene**
  - No specific test data related to reactivity available for this product or its ingredients.
- **Block 2 - Ovalene**
  - No specific test data related to reactivity available for this product or its ingredients.
- **Block 3 - p-Terphenyl**
  - No specific test data related to reactivity available for this product or its ingredients.
- **Block 4 - Tetraphenylbutadiene**
  - No specific test data related to reactivity available for this product or its ingredients.
- **Block 5 - Compound 610**
  - No specific test data related to reactivity available for this product or its ingredients.
- **Block 6 - Rhodamine**
  - No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

- **Block 1 - Anthracene - Naphthalene**
  - The product is stable.
- **Block 2 - Ovalene**
  - The product is stable.
- **Block 3 - p-Terphenyl**
  - The product is stable.
- **Block 4 - Tetraphenylbutadiene**
  - The product is stable.
- **Block 5 - Compound 610**
  - The product is stable.
- **Block 6 - Rhodamine**
  - The product is stable.

#### 10.3 Possibility of hazardous reactions

- **Block 1 - Anthracene - Naphthalene**
  - Under normal conditions of storage and use, hazardous reactions will not occur.
- **Block 2 - Ovalene**
  - Under normal conditions of storage and use, hazardous reactions will not occur.
- **Block 3 - p-Terphenyl**
  - Under normal conditions of storage and use, hazardous reactions will not occur.
- **Block 4 - Tetraphenylbutadiene**
  - Under normal conditions of storage and use, hazardous reactions will not occur.
- **Block 5 - Compound 610**
  - Under normal conditions of storage and use, hazardous reactions will not occur.
- **Block 6 - Rhodamine**
  - Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

- **Block 1 - Anthracene - Naphthalene**
  - No specific data.
- **Block 2 - Ovalene**
  - No specific data.
- **Block 3 - p-Terphenyl**
  - No specific data.
- **Block 4 - Tetraphenylbutadiene**
  - No specific data.
- **Block 5 - Compound 610**
  - No specific data.
- **Block 6 - Rhodamine**
  - No specific data.
SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

Block 1 - Anthracene - Napthalene
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Block 2 - Ovalene
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Block 3 - p-Terphenyl
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Block 4 - Tetraphenylbutadiene
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Block 5 - Compound 610
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Block 6 - Rhodamine
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10.5 Incompatible materials

Block 1 - Anthracene - Napthalene
May react or be incompatible with oxidising materials.

Block 2 - Ovalene
May react or be incompatible with oxidising materials.

Block 3 - p-Terphenyl
May react or be incompatible with oxidising materials.

Block 4 - Tetraphenylbutadiene
May react or be incompatible with oxidising materials.

Block 5 - Compound 610
May react or be incompatible with oxidising materials.

Block 6 - Rhodamine
May react or be incompatible with oxidising materials.

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 likely routes of exposure

Block 1 - Anthracene - Napthalene: Not available.
Block 2 - Ovalene: Not available.
Block 3 - p-Terphenyl: Not available.
Block 4 - Tetraphenylbutadiene: Not available.
Block 5 - Compound 610: Not available.
Block 6 - Rhodamine: Not available.

Potential acute health effects

Inhalation
Block 1 - Anthracene - Napthalene: No known significant effects or critical hazards.
Block 2 - Ovalene: No known significant effects or critical hazards.
Block 3 - p-Terphenyl: No known significant effects or critical hazards.
Block 4 - Tetraphenylbutadiene: No known significant effects or critical hazards.
Block 5 - Compound 610: No known significant effects or critical hazards.
Block 6 - Rhodamine: No known significant effects or critical hazards.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

SECTION 11: Toxicological information

Ingestion
- Block 1 - Anthracene -Napthalene: No known significant effects or critical hazards.
- Block 2 - Ovalene: No known significant effects or critical hazards.
- Block 3 - p-Terphenyl: No known significant effects or critical hazards.
- Block 4 - Tetraphenybutadiene: No known significant effects or critical hazards.
- Block 5 - Compound 610: No known significant effects or critical hazards.
- Block 6 - Rhodamine: No known significant effects or critical hazards.

Skin contact
- Block 1 - Anthracene -Napthalene: No known significant effects or critical hazards.
- Block 2 - Ovalene: No known significant effects or critical hazards.
- Block 3 - p-Terphenyl: No known significant effects or critical hazards.
- Block 4 - Tetraphenybutadiene: No known significant effects or critical hazards.
- Block 5 - Compound 610: No known significant effects or critical hazards.
- Block 6 - Rhodamine: No known significant effects or critical hazards.

Eye contact
- Block 1 - Anthracene -Napthalene: No known significant effects or critical hazards.
- Block 2 - Ovalene: No known significant effects or critical hazards.
- Block 3 - p-Terphenyl: No known significant effects or critical hazards.
- Block 4 - Tetraphenybutadiene: No known significant effects or critical hazards.
- Block 5 - Compound 610: No known significant effects or critical hazards.
- Block 6 - Rhodamine: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Short term exposure
- Potential immediate effects: Not available.

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### SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Potential delayed effects</th>
<th></th>
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<tbody>
<tr>
<td><strong>Long term exposure</strong></td>
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<tr>
<td><strong>Potential immediate effects</strong></td>
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</tr>
<tr>
<td><strong>Potential delayed effects</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Potential chronic health effects**

**General**

- **Block 1 - Anthracene -Napthalene**: No known significant effects or critical hazards.
- **Block 2 - Ovalene**: No known significant effects or critical hazards.
- **Block 3 - p-Terphenyl**: No known significant effects or critical hazards.
- **Block 4 -Tetraphenybutadiene**: No known significant effects or critical hazards.
- **Block 5 - Compound 610**: No known significant effects or critical hazards.
- **Block 6 - Rhodamine**: No known significant effects or critical hazards.

**Carcinogenicity**

- **Block 1 - Anthracene -Napthalene**: No known significant effects or critical hazards.
- **Block 2 - Ovalene**: No known significant effects or critical hazards.
- **Block 3 - p-Terphenyl**: No known significant effects or critical hazards.
- **Block 4 -Tetraphenybutadiene**: No known significant effects or critical hazards.
- **Block 5 - Compound 610**: No known significant effects or critical hazards.
- **Block 6 - Rhodamine**: No known significant effects or critical hazards.

**Mutagenicity**

- **Block 1 - Anthracene -Napthalene**: No known significant effects or critical hazards.
- **Block 2 - Ovalene**: No known significant effects or critical hazards.
- **Block 3 - p-Terphenyl**: No known significant effects or critical hazards.
- **Block 4 -Tetraphenybutadiene**: No known significant effects or critical hazards.
- **Block 5 - Compound 610**: No known significant effects or critical hazards.
- **Block 6 - Rhodamine**: No known significant effects or critical hazards.

**Teratogenicity**

- **Block 1 - Anthracene -Napthalene**: No known significant effects or critical hazards.
- **Block 2 - Ovalene**: No known significant effects or critical hazards.
- **Block 3 - p-Terphenyl**: No known significant effects or critical hazards.
- **Block 4 -Tetraphenybutadiene**: No known significant effects or critical hazards.
- **Block 5 - Compound 610**: No known significant effects or critical hazards.
- **Block 6 - Rhodamine**: No known significant effects or critical hazards.

**Developmental effects**

- **Block 1 - Anthracene -Napthalene**: No known significant effects or critical hazards.
- **Block 2 - Ovalene**: No known significant effects or critical hazards.
- **Block 3 - p-Terphenyl**: No known significant effects or critical hazards.
- **Block 4 -Tetraphenybutadiene**: No known significant effects or critical hazards.
- **Block 5 - Compound 610**: No known significant effects or critical hazards.
- **Block 6 - Rhodamine**: No known significant effects or critical hazards.

**Fertility effects**

- **Block 1 - Anthracene -Napthalene**: No known significant effects or critical hazards.
- **Block 2 - Ovalene**: No known significant effects or critical hazards.
- **Block 3 - p-Terphenyl**: No known significant effects or critical hazards.
- **Block 4 -Tetraphenybutadiene**: No known significant effects or critical hazards.
- **Block 5 - Compound 610**: No known significant effects or critical hazards.
- **Block 6 - Rhodamine**: No known significant effects or critical hazards.

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SECTION 12: Ecological information

12.1 Toxicity
Conclusion/Summary: Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Soil/water partition coefficient ($K_{OC}$): 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 2008/98/EC.

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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

Regulatory information
ADR/RID / IMDG / IATA: Not regulated.

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.
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**SECTION 14: Transport information**

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**
      - 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**
  - Block 1 - Anthracene -Napthalene: Not applicable.
  - Block 2 - Ovalene: Not applicable.
  - Block 3 - p-Terphenyl: Not applicable.
  - Block 4 - Tetraphenylbutadiene: Not applicable.
  - Block 5 - Compound 610: Not applicable.
  - Block 6 - Rhodamine: Not applicable.

**Other EU regulations**

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

**Seveso Directive**

- This product is not controlled under the Seveso Directive.

**National 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 Inform Consent (PIC)**
  - Not listed.

- **UNECE Aarhus Protocol on POPs and Heavy Metals**
  - Not listed.

**International lists**

- **National inventory**
  - **Australia**: All components are listed or exempted.
  - **Canada**: Not determined.
  - **China**: All components are listed or exempted.
  - **Japan**: **Japan inventory (ENCS)**: All components are listed or exempted. **Japan inventory (ISHL)**: All components are listed or exempted.
  - **Malaysia**: All components are listed or exempted.
  - **New Zealand**: Not determined.
  - **Philippines**: Not determined.
  - **Republic of Korea**: Not determined.
  - **Taiwan**: All components are listed or exempted.
  - **Turkey**: Not determined.

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SECTION 15: Regulatory information

United States: All components are listed or exempted.

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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<th>Justification</th>
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Date of issue/ Date of revision: 02/08/2016
Date of previous issue: No previous validation.
Version: 1

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