Conforms to US OSHA Hazard Communication 29CFR1910.1200

# SAFETY DATA SHEET

Agilent Technologies

Fluoresence Reference Set (6 BF), Part Number 6610010300

## Section 1. Identification

**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. (chemical kit)** : 6610010300

**Part no.** :

| | |
|---|---|
| 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. |

**Validation date** : 7/30/2018

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

**Material uses** : Reagents and Standards for Analytical Chemistry Laboratory Use

| | |
|---|---|
| Block 1 - Anthracene - Napthalene | 8 g |
| Block 2 - Ovalene | 8 g |
| Block 3 - p-Terphenyl | 8 g |
| Block 4 - Tetraphenylbutadiene | 8 g |
| Block 5 - Compound 610 | 8 g |
| Block 6 - Rhodamine | 8 g |

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer** : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

## 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

**OSHA/HCS status** :

| | |
|---|---|
| Block 1 - Anthracene - Napthalene | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| Block 2 - Ovalene | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and |

# Section 2. Hazards identification

| | |
|---|---|
| | other users of this product. |
| Block 3 - p-Terphenyl | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| Block 4 - Tetraphenylbutadiene | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| Block 5 - Compound 610 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| Block 6 - Rhodamine | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |

**Classification of the substance or mixture**

Not classified.

**2.2 GHS 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. |

# Section 2. Hazards identification

| | | | |
|---|---|---|---|
| **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. |
| **Disposal** | : | 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. |
| **Supplemental label elements** | : | 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. |

**2.3 Other hazards**

| | | | |
|---|---|---|---|
| **Hazards not otherwise classified** | : | 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. |

# 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.**

| | | | |
|---|---|---|---|
| **Substance/mixture** | : | Block 1 - Anthracene - Napthalene | Mixture (encapsulated in article) |
| | | Block 2 - Ovalene | Mixture (encapsulated in article) |
| | | Block 3 - p-Terphenyl | Mixture (encapsulated in article) |
| | | Block 4 - Tetraphenylbutadiene | Mixture (encapsulated in article) |
| | | Block 5 - Compound 610 | Mixture (encapsulated in article) |
| | | Block 6 - Rhodamine | Mixture (encapsulated in article) |

| Ingredient name | % | CAS number |
|---|---|---|
| **Block 1 - Anthracene - Napthalene** | | |
| Anthracene | <0.0025 | 120-12-7 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

## 4.1 Description of necessary first aid measures

| | | | |
|---|---|---|---|
| **Eye contact** | : | Block 1 - Anthracene - Napthalene | 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 - Napthalene | 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 - Napthalene | 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. |

# Section 4. First aid measures

| | | | |
|---|---|---|---|
| | | Block 6 - Rhodamine | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| **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. |

## 4.2 Most important symptoms/effects, 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** | : | 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. |
| **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 - 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. |
| **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 - 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. |

**Over-exposure signs/symptoms**

| | | | |
|---|---|---|---|
| **Eye contact** | : | Block 1 - Anthracene - Napthalene | 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. |
| **Inhalation** | : | Block 1 - Anthracene - Napthalene | 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. |
| **Skin contact** | : | Block 1 - Anthracene - Napthalene | 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. |
| **Ingestion** | : | Block 1 - Anthracene - Napthalene | 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. |

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

| | | | |
|---|---|---|---|
| **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 |

# Section 4. First aid measures

| | | |
|---|---|---|
| | | 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. |
| **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. |

**See toxicological information (Section 11)**

# Section 5. Fire-fighting measures

## 5.1 Extinguishing media

| | | |
|---|---|---|
| **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

| | | |
|---|---|---|
| **Specific hazards arising from the chemical** : | 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. |

# Section 5. Fire-fighting measures

| | | | |
|---|---|---|---|
| **Hazardous thermal decomposition products** | : | Block 1 - Anthracene - Napthalene | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |
| | | Block 2 - Ovalene | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |
| | | Block 3 - p-Terphenyl | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |
| | | Block 4 - Tetraphenylbutadiene | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |
| | | Block 5 - Compound 610 | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |
| | | Block 6 - Rhodamine | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |

## 5.3 Advice for firefighters

| | | | |
|---|---|---|---|
| **Special protective actions 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. |
| | | 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. |

# Section 5. Fire-fighting measures

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|---|---|
| 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. |
| 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. |
| 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. |
| 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. |

# Section 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** :

| | |
|---|---|
| Block 1 - Anthracene - Napthalene | 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 spilled material. Put on appropriate personal protective equipment. |
| Block 2 - Ovalene | 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 spilled material. Put on appropriate personal protective equipment. |
| Block 3 - p-Terphenyl | 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 spilled material. Put on appropriate personal protective equipment. |
| Block 4 - Tetraphenylbutadiene | 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 spilled material. Put on appropriate personal protective equipment. |
| Block 5 - Compound 610 | 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 spilled material. Put on appropriate personal protective equipment. |
| Block 6 - Rhodamine | 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 spilled material. Put on appropriate personal protective equipment. |

# Section 6. Accidental release measures

| | | | |
|---|---|---|---|
| **For emergency responders** | : | Block 1 - Anthracene - Napthalene | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | | Block 2 - Ovalene | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | | Block 3 - p-Terphenyl | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | | Block 4 - Tetraphenylbutadiene | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | | Block 5 - Compound 610 | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | | Block 6 - Rhodamine | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| **6.2 Environmental precautions** | : | Block 1 - Anthracene - Napthalene | Avoid dispersal of spilled 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). |
| | | Block 2 - Ovalene | Avoid dispersal of spilled 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). |
| | | Block 3 - p-Terphenyl | Avoid dispersal of spilled 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). |
| | | Block 4 - Tetraphenylbutadiene | Avoid dispersal of spilled 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). |
| | | Block 5 - Compound 610 | Avoid dispersal of spilled 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). |
| | | Block 6 - Rhodamine | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

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

# Section 6. Accidental release measures

| | | | |
|---|---|---|---|
| **Methods for cleaning up** | : | Block 1 - Anthracene - Napthalene | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| | | Block 2 - Ovalene | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| | | Block 3 - p-Terphenyl | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| | | Block 4 - Tetraphenylbutadiene | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| | | Block 5 - Compound 610 | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| | | Block 6 - Rhodamine | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |

# Section 7. Handling and storage

## 7.1 Precautions for safe handling

| | | | |
|---|---|---|---|
| **Protective measures** | : | Block 1 - Anthracene - Napthalene | Put on appropriate personal protective equipment (see Section 8). |
| | | Block 2 - Ovalene | Put on appropriate personal protective equipment (see Section 8). |
| | | Block 3 - p-Terphenyl | Put on appropriate personal protective equipment (see Section 8). |
| | | Block 4 - Tetraphenylbutadiene | Put on appropriate personal protective equipment (see Section 8). |
| | | Block 5 - Compound 610 | Put on appropriate personal protective equipment (see Section 8). |
| | | Block 6 - Rhodamine | Put on appropriate personal protective equipment (see Section 8). |
| **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 |

# Section 7. Handling and storage

| | | |
|---|---|---|
| | | 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | Block 4 - Tetraphenylbutadiene | Store in accordance with local regulations. Store in |

# Section 7. Handling and storage

| | | |
|---|---|---|
| | | 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| | 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

## 7.3 Specific end use(s)

| | | | |
|---|---|---|---|
| **Recommendations** | : | 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

# Section 8. Exposure controls/personal protection

| Ingredient name | Exposure limits |
|---|---|
| **Block 1 - Anthracene - Napthalene**<br>Anthracene | **NIOSH REL (United States, 10/2016).**<br>TWA: 0.1 mg/m³ 10 hours.<br>**OSHA PEL 1989 (United States, 3/1989).**<br>TWA: 0.2 mg/m³ 8 hours. Form: Benzene soluble<br>**OSHA PEL (United States, 6/2016).**<br>TWA: 0.2 mg/m³ 8 hours. Form: Benzene soluble |

## 8.2 Exposure controls

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

**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.

### 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.

# Section 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

### Appearance

# Section 9. Physical and chemical properties

| | | | |
|---|---|---|---|
| **Physical state** | : | Block 1 - Anthracene - Napthalene | Solid. [(block)] |
| | | Block 2 - Ovalene | Solid. [(block)] |
| | | Block 3 - p-Terphenyl | Solid. [(block)] |
| | | Block 4 - Tetraphenylbutadiene | Solid. [(block)] |
| | | Block 5 - Compound 610 | Solid. [(block)] |
| | | Block 6 - Rhodamine | Solid. [(block)] |
| **Color** | : | Block 1 - Anthracene - Napthalene | Transparent |
| | | Block 2 - Ovalene | Transparent |
| | | Block 3 - p-Terphenyl | Transparent |
| | | Block 4 - Tetraphenylbutadiene | Transparent |
| | | Block 5 - Compound 610 | Transparent |
| | | Block 6 - Rhodamine | Transparent |
| **Odor** | : | 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. |
| **Odor threshold** | : | 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. |
| **pH** | : | 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. |
| **Melting point** | : | 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. |
| **Boiling point** | : | 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. |
| **Flash point** | : | 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. |
| **Evaporation rate** | : | 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. |

# Section 9. Physical and chemical properties

| | | | |
|---|---|---|---|
| **Flammability (solid, gas)** | : | 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. |
| **Lower and upper explosive (flammable) limits** | : | 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. |
| **Vapor pressure** | : | 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. |
| **Vapor density** | : | 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. |
| **Relative density** | : | Block 1 - Anthracene - Napthalene | 1.15 |
| | | Block 2 - Ovalene | 1.15 |
| | | Block 3 - p-Terphenyl | 1.15 |
| | | Block 4 - Tetraphenylbutadiene | 1.15 |
| | | Block 5 - Compound 610 | 1.15 |
| | | Block 6 - Rhodamine | 1.15 |
| **Solubility** | : | Block 1 - Anthracene - Napthalene | Insoluble in the following materials: cold water and hot water. |
| | | Block 2 - Ovalene | Insoluble in the following materials: cold water and hot water. |
| | | Block 3 - p-Terphenyl | Insoluble in the following materials: cold water and hot water. |
| | | Block 4 - Tetraphenylbutadiene | Insoluble in the following materials: cold water and hot water. |
| | | Block 5 - Compound 610 | Insoluble in the following materials: cold water and hot water. |
| | | Block 6 - Rhodamine | Insoluble in the following materials: cold water and hot water. |
| **Partition coefficient: n-octanol/water** | : | 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. |
| **Auto-ignition temperature** | : | 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. |

# Section 9. Physical and chemical properties

| | | | |
|---|---|---|---|
| **Decomposition temperature** | : | 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. |
| **Viscosity** | : | 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. |

# Section 10. Stability and reactivity

| | | | |
|---|---|---|---|
| **10.1 Reactivity** | : | Block 1 - Anthracene - Napthalene | 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 - Napthalene | 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 - Napthalene | 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 - Napthalene | 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

**10.5 Incompatible materials** :

| | |
|---|---|
| Block 1 - Anthracene - Napthalene | May react or be incompatible with oxidizing materials. |
| Block 2 - Ovalene | May react or be incompatible with oxidizing materials. |
| Block 3 - p-Terphenyl | May react or be incompatible with oxidizing materials. |
| Block 4 - Tetraphenylbutadiene | May react or be incompatible with oxidizing materials. |
| Block 5 - Compound 610 | May react or be incompatible with oxidizing materials. |
| Block 6 - Rhodamine | May react or be incompatible with oxidizing materials. |

**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. |

# Section 11. Toxicological information

## 11.1 Information on toxicological effects

### Acute toxicity

Not available.

### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| **Block 1 - Anthracene - Napthalene**<br>Anthracene | Skin - Mild irritant | Mouse | - | 118 Micrograms | - |

### Sensitization

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Classification

# Section 11. Toxicological information

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| **Block 1 - Anthracene - Napthalene**<br>Anthracene | - | 3 | - |

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : 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** | : | 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**

| | | | |
|---|---|---|---|
| **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. |
| **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. |
| **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 - 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. |
| **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 - 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. |

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

# Section 11. Toxicological information

| | | | |
|---|---|---|---|
| **Eye contact** | : | Block 1 - Anthracene - Napthalene | 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. |
| **Inhalation** | : | Block 1 - Anthracene - Napthalene | 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. |
| **Skin contact** | : | Block 1 - Anthracene - Napthalene | 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. |
| **Ingestion** | : | Block 1 - Anthracene - Napthalene | 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. |

## 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** | : | 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. |
| **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 - 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. |
| **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 - 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 11. Toxicological information

| | | | |
|---|---|---|---|
| **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 - 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. |
| **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 - 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. |
| **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 - 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. |

## Numerical measures of toxicity

### Acute toxicity estimates

Not available.

# Section 12. Ecological information

## 12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| **Block 1 - Anthracene - Napthalene** | | | |
| Anthracene | Acute EC50 95 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 3.6 µg/l Marine water | Crustaceans - Americamysis bahia | 48 hours |
| | Acute LC50 1.27 µg/l Fresh water | Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Chronic NOEC 6.08 µg/l Fresh water | Fish - Pimephales promelas - Sexually mature | 5 weeks |

## 12.2 Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| **Block 1 - Anthracene - Napthalene** | | | |
| Anthracene | - | - | Not readily |

## 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| **Block 1 - Anthracene - Napthalene** | | | |
| Anthracene | 4.65 | 2615 | high |

# Section 12. Ecological information

## 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

## 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

**The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

# 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.**

**DOT / TDG / Mexico / IMDG / IATA** : Not regulated.

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

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

# Section 15. Regulatory information

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

**U.S. Federal regulations** : **TSCA 8(a) PAIR**: naphthalene

**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

**Clean Water Act (CWA) 307**: Anthracene; naphthalene

**Clean Water Act (CWA) 311**: naphthalene

# Section 15. Regulatory information

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304**

**Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** :

| | |
|---|---|
| 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. |

**Composition/information on ingredients**

No products were found.

**State regulations**

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

**California Prop. 65**

⚠ **WARNING**: This product can expose you to chemicals including Carbon-black extracts, Naphthalene, D&C Red No. 19, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| Ingredient name | No significant risk level | Maximum acceptable dosage level |
|---|---|---|
| **Block 1 - Anthracene - Napthalene** | | |
| Carbon-black extracts | - | - |
| Naphthalene | Yes. | - |
| **Block 6 - Rhodamine** | | |
| D&C Red No.19 | - | - |

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

# Section 15. Regulatory information

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list**

| | | |
|---|---|---|
| **Australia** | : | All components are listed or exempted. |
| **Canada** | : | Not determined. |
| **China** | : | All components are listed or exempted. |
| **Europe** | : | All components are listed or exempted. |
| **Japan** | : | **Japan inventory (ENCS)**: All components are listed or exempted.<br>**Japan inventory (ISHL)**: All components are listed or exempted. |
| **Malaysia** | : | All components are listed or exempted. |
| **New Zealand** | : | All components are listed or exempted. |
| **Philippines** | : | Not determined. |
| **Republic of Korea** | : | Not determined. |
| **Taiwan** | : | All components are listed or exempted. |
| **Thailand** | : | Not determined. |
| **Turkey** | : | Not determined. |
| **United States** | : | All components are listed or exempted. |
| **Viet Nam** | : | Not determined. |

# Section 16. Other information

**History**

| | | |
|---|---|---|
| **Date of issue** | : | 07/30/2018 |
| **Date of previous issue** | : | 08/02/2016 |
| **Version** | : | 4 |

**Procedure used to derive the classification**

| Classification | Justification |
|---|---|
| Not classified. | |

**Indicates information that has changed from previously issued version.**

**Notice to reader**

**Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.**