Section 1. Identification

1.1 Product identifier
Product name: FLD Standard Kit, Part Number 5190-9070
Part No. (Chemical Kit): 5190-9070
Part No.: 
- FLD Standard (Anthracene) 5190-9070-1
- FLD Standard (Blank) 5190-9070-2

Validation date: 8/3/2017

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses:
- Analytical chemistry.
- FLD Standard (Anthracene) 1 x 2 ml ampoule
- FLD Standard (Blank) 1 x 2 ml ampoule

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

2.1 Classification of the substance or mixture
OSHA/HCS status: 
- FLD Standard (Anthracene) This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- FLD Standard (Blank) This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

**FLD Standard (Anthracene)**
- H225 FLAMMABLE LIQUIDS - Category 2
- H302 ACUTE TOXICITY (oral) - Category 4
- H312 ACUTE TOXICITY (dermal) - Category 4
- H332 ACUTE TOXICITY (inhalation) - Category 4
- H319 EYE IRRITATION - Category 2A
- H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

**FLD Standard (Blank)**
- H225 FLAMMABLE LIQUIDS - Category 2
- H302 ACUTE TOXICITY (oral) - Category 4
- H312 ACUTE TOXICITY (dermal) - Category 4
- H332 ACUTE TOXICITY (inhalation) - Category 4
- H319 EYE IRRITATION - Category 2A
- H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

2.2 GHS label elements

**Date of issue:** 08/03/2017
Section 2. Hazards identification

### Hazard pictograms
FLD Standard (Anthracene)

### Signal word
FLD Standard (Anthracene): Danger
FLD Standard (Blank): Danger

### Hazard statements
FLD Standard (Anthracene):
- H225 - Highly flammable liquid and vapor.
- H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
- H319 - Causes serious eye irritation.
- H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)

FLD Standard (Blank):
- H225 - Highly flammable liquid and vapor.
- H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
- H319 - Causes serious eye irritation.
- H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)

### Precautionary statements
#### Prevention
FLD Standard (Anthracene):
- P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P233 - Keep container tightly closed.
- P271 - Use only outdoors or in a well-ventilated area.
- P260 - Do not breathe vapor.
- P270 - Do not eat, drink or smoke when using this product.
- P264 - Wash hands thoroughly after handling.

FLD Standard (Blank):
- P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P233 - Keep container tightly closed.
- P271 - Use only outdoors or in a well-ventilated area.
- P260 - Do not breathe vapor.
Section 2. Hazards identification

Response : FLD Standard (Anthracene)

P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.
P314 - Get medical attention if you feel unwell.
P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Response : FLD Standard (Blank)

FLD Standard (Blank)

P314 - Get medical attention if you feel unwell.
P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Storage : FLD Standard (Anthracene)

P403 - Store in a well-ventilated place.
P235 - Keep cool.

FLD Standard (Blank)

P403 - Store in a well-ventilated place.
P235 - Keep cool.

Disposal : FLD Standard (Anthracene)

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

FLD Standard (Blank)

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

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Section 2. Hazards identification

2.3 Other hazards

Hazards not otherwise classified:
- FLD Standard (Anthracene): None known.
- FLD Standard (Blank): None known.

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>FLD Standard (Anthracene)</th>
<th>FLD Standard (Blank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>≥50 - ≤75</td>
<td>75-05-8</td>
</tr>
<tr>
<td>Mixture</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:
- FLD Standard (Anthracene): Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- FLD Standard (Blank): Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation:
- FLD Standard (Anthracene): Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- FLD Standard (Blank): Remove victim to fresh air and keep at rest in a
Section 4. First aid measures

Position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**

: FLD Standard (Anthracene)  
Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

: FLD Standard (Blank)  
Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**

: FLD Standard (Anthracene)  
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

: FLD Standard (Blank)  
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit
Section 4. First aid measures

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact:
- FLD Standard (Anthracene) Causes serious eye irritation.
- FLD Standard (Blank) Causes serious eye irritation.

Inhalation:
- FLD Standard (Anthracene) Harmful if inhaled.
- FLD Standard (Blank) Harmful if inhaled.

Skin contact:
- FLD Standard (Anthracene) Harmful in contact with skin.
- FLD Standard (Blank) Harmful in contact with skin.

Ingestion:
- FLD Standard (Anthracene) Harmful if swallowed.
- FLD Standard (Blank) Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact:
- FLD Standard (Anthracene) Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness
- FLD Standard (Blank) Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

Inhalation:
- FLD Standard (Anthracene) No specific data.
- FLD Standard (Blank) No specific data.

Skin contact:
- FLD Standard (Anthracene) No specific data.
- FLD Standard (Blank) No specific data.

Ingestion:
- FLD Standard (Anthracene) No specific data.
- FLD Standard (Blank) No specific data.

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

Notes to physician:
- FLD Standard (Anthracene) In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- FLD Standard (Blank) In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments:
- FLD Standard (Blank) No specific treatment.

Protection of first-aiders:
- FLD Standard (Anthracene) No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- FLD Standard (Blank) No action shall be taken involving any personal risk.
Section 4. First aid measures

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

| Suitable extinguishing media | FLD Standard (Anthracene) | Use dry chemical, CO₂, water spray (fog) or foam. |
| Unsuitable extinguishing media | FLD Standard (Blank) | Use dry chemical, CO₂, water spray (fog) or foam. |

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

| FLD Standard (Anthracene) | Use dry chemical, CO₂, water spray (fog) or foam. |
| FLD Standard (Blank) | Use dry chemical, CO₂, water spray (fog) or foam. |

Hazardous thermal decomposition products

| FLD Standard (Anthracene) | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, cyanides |
| FLD Standard (Blank) | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, cyanides |

5.3 Advice for firefighters

Special protective actions for fire-fighters

| FLD Standard (Anthracene) | 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| FLD Standard (Blank) | 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |

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Section 5. Fire-fighting measures

**Special protective equipment for fire-fighters**

FLD Standard (Anthracene)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

FLD Standard (Blank)

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**

FLD Standard (Anthracene)

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

FLD Standard (Blank)

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders**

FLD Standard (Anthracene)

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".

FLD Standard (Blank)

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

FLD Standard (Anthracene)

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).

FLD Standard (Blank)

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: FLD Standard (Anthracene)

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

FLD Standard (Blank)

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures: FLD Standard (Anthracene)

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

FLD Standard (Blank)

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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## Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Advice on general occupational hygiene</th>
<th>FLD Standard (Anthracene)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td></td>
<td>FLD Standard (Blank)</td>
</tr>
<tr>
<td></td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7.2 Conditions for safe storage, including any incompatibilities</th>
<th>FLD Standard (Anthracene)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.2 Conditions for safe storage, including any incompatibilities</td>
<td>Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.</td>
</tr>
<tr>
<td>FLD Standard (Blank)</td>
<td>Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7.3 Specific end use(s)</th>
</tr>
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<tbody>
<tr>
<td>Recommendations</td>
</tr>
<tr>
<td></td>
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<tr>
<td>Industrial sector specific solutions</td>
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</tbody>
</table>
### Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>TWA: 20 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 40 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 70 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>STEL: 105 mg/m³ 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 10/2013).</td>
</tr>
<tr>
<td></td>
<td>TWA: 20 ppm 10 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 34 mg/m³ 10 hours.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 6/2016).</td>
</tr>
<tr>
<td></td>
<td>TWA: 40 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 70 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
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<td>Acetonitrile</td>
<td>TWA: 20 ppm 8 hours.</td>
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<td></td>
<td>TWA: 70 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>STEL: 105 mg/m³ 15 minutes.</td>
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</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 6/2016).</td>
</tr>
<tr>
<td></td>
<td>TWA: 40 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 70 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

#### 8.2 Exposure controls

**Appropriate engineering controls**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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.

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Section 8. Exposure controls/personal protection

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

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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


Color: FLD Standard (Anthracene) Not available. FLD Standard (Blank) Not available.

Odor: FLD Standard (Anthracene) Not available. FLD Standard (Blank) Not available.


pH: FLD Standard (Anthracene) Not available. FLD Standard (Blank) Not available.

Melting point: FLD Standard (Anthracene) Not available. FLD Standard (Blank) Not available.

Boiling point: FLD Standard (Anthracene) >35°C (>95°F) FLD Standard (Blank) >35°C (>95°F)

Flash point: FLD Standard (Anthracene) Closed cup: <23°C (<73.4°F) FLD Standard (Blank) Closed cup: <23°C (<73.4°F)

Evaporation rate: FLD Standard (Anthracene) Not available. FLD Standard (Blank) Not available.

Flammability (solid, gas): FLD Standard (Anthracene) Not applicable. FLD Standard (Blank) Not applicable.

Lower and upper explosive (flammable) limits: FLD Standard (Anthracene) Not available. FLD Standard (Blank) Not available.

Vapor pressure: FLD Standard (Anthracene) Not available. FLD Standard (Blank) Not available.

Vapor density: 

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Section 9. Physical and chemical properties

Relative density
- FLD Standard (Anthracene): Not available.
- FLD Standard (Blank): Not available.

Solubility
- FLD Standard (Anthracene): Soluble in the following materials: cold water and hot water.
- FLD Standard (Blank): Soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water
- FLD Standard (Anthracene): Not available.
- FLD Standard (Blank): Not available.

Auto-ignition temperature
- FLD Standard (Anthracene): Not available.
- FLD Standard (Blank): Not available.

Decomposition temperature
- FLD Standard (Anthracene): Not available.
- FLD Standard (Blank): Not available.

Viscosity
- FLD Standard (Anthracene): Not available.
- FLD Standard (Blank): Not available.

Section 10. Stability and reactivity

10.1 Reactivity
- FLD Standard (Anthracene): No specific test data related to reactivity available for this product or its ingredients.
- FLD Standard (Blank): No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability
- FLD Standard (Anthracene): The product is stable.
- FLD Standard (Blank): The product is stable.

10.3 Possibility of hazardous reactions
- FLD Standard (Anthracene): Under normal conditions of storage and use, hazardous reactions will not occur.
- FLD Standard (Blank): Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
- FLD Standard (Anthracene): Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- FLD Standard (Blank): Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials
- FLD Standard (Anthracene): Reactive or incompatible with the following materials: oxidizing materials.
- FLD Standard (Blank): Reactive or incompatible with the following materials: oxidizing materials.

10.6 Hazardous decomposition products
- FLD Standard (Anthracene): Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- FLD Standard (Blank): Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
</table>
| FLD Standard (Anthracene) Acetonitrile | LC50 Inhalation Vapor  
LD50 Oral | Rat     | 17100 ppm  
LD50 Oral | 2460 mg/kg | 4 hours |
| FLD Standard (Blank) Acetonitrile | LC50 Inhalation Vapor  
LD50 Oral | Rat     | 17100 ppm  
LD50 Oral | 2460 mg/kg | 4 hours |

#### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
<th>Observation</th>
</tr>
</thead>
</table>
| FLD Standard (Anthracene) Acetonitrile | Eyes - Moderate irritant  
Skin - Mild irritant | Rabbit | -     | 24 hours 100 microliters  
500 milligrams | -          | -          |
| FLD Standard (Blank) Acetonitrile | Eyes - Moderate irritant  
Skin - Mild irritant | Rabbit | -     | 24 hours 100 microliters  
500 milligrams | -          | -          |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD Standard (Anthracene) Acetonitrile</td>
<td>Category 2</td>
<td>Not determined</td>
<td>blood system, central nervous system (CNS), kidneys and liver</td>
</tr>
<tr>
<td>FLD Standard (Blank) Acetonitrile</td>
<td>Category 2</td>
<td>Not determined</td>
<td>blood system, central nervous system (CNS), kidneys and liver</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

Aspiration hazard
Not available.

Information on the likely routes of exposure

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>FLD Standard (Anthracene)</th>
<th>FLD Standard (Blank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Harmful if inhaled.</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Harmful in contact with skin.</td>
<td>Harmful in contact with skin.</td>
</tr>
</tbody>
</table>

Potential acute health effects

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>FLD Standard (Anthracene)</th>
<th>FLD Standard (Blank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Causes serious eye irritation.</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Harmful if inhaled.</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Harmful in contact with skin.</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
<td>Harmful if swallowed.</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>FLD Standard (Anthracene)</th>
<th>FLD Standard (Blank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Adverse symptoms may include the following: pain or irritation watering redness</td>
<td>Adverse symptoms may include the following: pain or irritation watering redness</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

Potential chronic health effects

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>FLD Standard (Anthracene)</th>
<th>FLD Standard (Blank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

**Mutagenicity**
- FLD Standard (Anthracene): No known significant effects or critical hazards.
- FLD Standard (Blank): No known significant effects or critical hazards.

**Teratogenicity**
- FLD Standard (Anthracene): No known significant effects or critical hazards.
- FLD Standard (Blank): No known significant effects or critical hazards.

**Developmental effects**
- FLD Standard (Anthracene): No known significant effects or critical hazards.
- FLD Standard (Blank): No known significant effects or critical hazards.

**Fertility effects**
- FLD Standard (Anthracene): No known significant effects or critical hazards.
- FLD Standard (Blank): No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD Standard (Anthracene) Oral</td>
<td>772.2 mg/kg</td>
</tr>
<tr>
<td>FLD Standard (Anthracene) Dermal</td>
<td>1698.8 mg/kg</td>
</tr>
<tr>
<td>FLD Standard (Anthracene) Inhalation (vapors)</td>
<td>16.99 mg/l</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD Standard (Blank) Oral</td>
<td>772.2 mg/kg</td>
</tr>
<tr>
<td>FLD Standard (Blank) Dermal</td>
<td>1698.8 mg/kg</td>
</tr>
<tr>
<td>FLD Standard (Blank) Inhalation (vapors)</td>
<td>16.99 mg/l</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

**12.1 Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD Standard (Anthracene) Acetonitrile</td>
<td>Acute IC50 3685000 µg/l Fresh water Acute LC50 3600000 µg/l Fresh water Acute LC50 1000000 µg/l Fresh water Chronic NOEC 1000000 µg/l Fresh water Chronic NOEC 1600000 µg/l Fresh water</td>
<td>Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Pimephales promelas Aquatic plants - Lemna minor Daphnia - Daphnia magna</td>
<td>96 hours 48 hours 96 hours 96 hours 21 days</td>
</tr>
<tr>
<td>FLD Standard (Blank) Acetonitrile</td>
<td>Acute IC50 3685000 µg/l Fresh water Acute LC50 3600000 µg/l Fresh water Acute LC50 1000000 µg/l Fresh water Chronic NOEC 1000000 µg/l Fresh water Chronic NOEC 1600000 µg/l Fresh water</td>
<td>Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Pimephales promelas Aquatic plants - Lemna minor Daphnia - Daphnia magna</td>
<td>96 hours 48 hours 96 hours 96 hours 21 days</td>
</tr>
</tbody>
</table>

**12.2 Persistence and degradability**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD Standard (Anthracene) Acetonitrile</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>FLD Standard (Blank) Acetonitrile</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

**12.3 Bioaccumulative potential**

**Date of issue**: 08/03/2017
Section 12. Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP (_{ow})</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD Standard (Anthracene) Acetonitrile</td>
<td>-0.34</td>
<td>3</td>
<td>low</td>
</tr>
<tr>
<td>FLD Standard (Blank) Acetonitrile</td>
<td>-0.34</td>
<td>3</td>
<td>low</td>
</tr>
</tbody>
</table>

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Status</th>
<th>Reference number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD Standard (Anthracene) Acetonitrile (I,T)</td>
<td>75-05-8</td>
<td>Listed</td>
<td>U003</td>
</tr>
<tr>
<td>FLD Standard (Blank) Acetonitrile (I,T)</td>
<td>75-05-8</td>
<td>Listed</td>
<td>U003</td>
</tr>
</tbody>
</table>

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.

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Section 14. Transport information

<table>
<thead>
<tr>
<th>UN number</th>
<th>DOT Classification</th>
<th>TDG Classification</th>
<th>Mexico Classification</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1648</td>
<td>UN1648</td>
<td>UN1648</td>
<td>UN1648</td>
<td>UN1648</td>
<td>UN1648</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Acetonitrile solution</td>
<td>ACETONITRILE solution</td>
<td>ACETONITRILO solution</td>
<td>ACETONITRILE solution</td>
<td>Acetonitrile solution</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
</tbody>
</table>

Additional information

**DOT Classification**
- **Reportable quantity**: 7722 lbs / 3505.8 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- **Limited quantity**: Yes.
- **Quantity limitation**: Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L.
- **Special provisions**: IB2, T7, T9P2

**TDG Classification**
- **Product classified as per the following sections of the Transportation of Dangerous Goods Regulations**: 2.18-2.19 (Class 3).
- **Explosive Limit and Limited Quantity Index**: 1
- **Passenger Carrying Road or Rail Index**: 5

**IMDG**
- **Emergency schedules**: F-E, S-D

**IATA**

**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**: Acetonitrile
- **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
- **Clean Water Act (CWA) 307**: Acetonitrile; Anthracene

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)**
- **Listed**
Section 15. Regulatory information

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 : FLD Standard (Anthracene)
                 Fire hazard
                 Immediate (acute) health hazard
                 Delayed (chronic) health hazard
                 FLD Standard (Blank)
                 Fire hazard
                 Immediate (acute) health hazard
                 Delayed (chronic) health hazard

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FLD Standard (Blank)</td>
<td>≥50 - ≤75</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
<tr>
<td>Acetonitrile</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 313

<table>
<thead>
<tr>
<th></th>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form R - Reporting requirements</td>
<td>FLD Standard (Anthracene)</td>
<td>75-05-8</td>
<td>≥50 - ≤75</td>
</tr>
<tr>
<td></td>
<td>Acetonitrile</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FLD Standard (Blank)</td>
<td>75-05-8</td>
<td>≥50 - ≤75</td>
</tr>
<tr>
<td></td>
<td>Acetonitrile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplier notification</td>
<td>FLD Standard (Anthracene)</td>
<td>75-05-8</td>
<td>≥50 - ≤75</td>
</tr>
<tr>
<td></td>
<td>Acetonitrile</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FLD Standard (Blank)</td>
<td>75-05-8</td>
<td>≥50 - ≤75</td>
</tr>
<tr>
<td></td>
<td>Acetonitrile</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: ACETONITRILE
New York : The following components are listed: Acetonitrile; Ethanenitrile
New Jersey : The following components are listed: ACETONITRILE; CYANOMETHANE
Pennsylvania : The following components are listed: ACETONITRILE
California Prop. 65

Date of issue : 08/03/2017
Section 15. Regulatory information

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD Standard (Anthracene)</td>
<td>Yes</td>
<td>No.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Carbon-black extracts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**
Not listed.

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

**Stockholm Convention on Persistent Organic Pollutants**
Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**
Not listed.

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

**Inventory list**

- **Australia** : All components are listed or exempted.
- **Canada** : All components are listed or exempted.
- **China** : All components are listed or exempted.
- **Europe** : 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** : Not determined.
- **New Zealand** : All components are listed or exempted.
- **Philippines** : All components are listed or exempted.
- **Republic of Korea** : All components are listed or exempted.
- **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** : 08/03/2017
- **Date of previous issue** : 04/12/2016
- **Version** : 2

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

**Notice to reader**

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