SAFETY DATA SHEET

5973 One Year Maintenance Kit - for diffusion pump systems, Part Number 5183-2096

Section 1. Identification

Product identifier : 5973 One Year Maintenance Kit - for diffusion pump systems, Part Number 5183-2096

Part no. (chemical kit) : 5183-2096

Part no. : Santovac 5P Ultra Polyphenyl Ether Lubricant 6040-0809
          OFN EI Checkout Standard 1 pg/μL 5188-5348
          AVF 45 Platinum 5191-5851

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use

Santovac 5P Ultra Polyphenyl Ether Lubricant Container: 18.5 ml
OFN EI Checkout Standard 1 pg/μL 3 x 1 ml
AVF 45 Platinum 1Qt Bottle

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

Emergency telephone number (with hours of operation) : CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

OFN EI Checkout Standard
1 pg/μL

H225 FLAMMABLE LIQUIDS - Category 2
H315 SKIN IRRITATION - Category 2
H319 EYE IRRITATION - Category 2A
H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H304 ASPIRATION HAZARD - Category 1
H400 AQUATIC HAZARD (ACUTE) - Category 1
H410 AQUATIC HAZARD (LONG-TERM) - Category 1

AVF 45 Platinum
H413 AQUATIC HAZARD (LONG-TERM) - Category 4

GHS label elements

Hazard pictograms : OFN EI Checkout Standard 1 pg/μL

Signal word : Santovac 5P Ultra Polyphenyl Ether Lubricant No signal word.
              OFN EI Checkout Standard 1 pg/μL Danger
              AVF 45 Platinum No signal word.

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### Section 2. Hazard identification

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H225 - Highly flammable liquid and vapor.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H304 - May be fatal if swallowed and enters airways.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H315 - Causes skin irritation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H319 - Causes serious eye irritation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H335 - May cause respiratory irritation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H336 - May cause drowsiness or dizziness.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H410 - Very toxic to aquatic life with long lasting effects.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AVF 45 Platinum</td>
<td>H413 - May cause long lasting harmful effects to aquatic life.</td>
</tr>
</tbody>
</table>

**Precautionary statements**

**Prevention**

<table>
<thead>
<tr>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P280 - Wear protective gloves. Wear eye or face protection.</td>
<td></td>
</tr>
<tr>
<td>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</td>
<td></td>
</tr>
<tr>
<td>P273 - Avoid release to the environment.</td>
<td></td>
</tr>
<tr>
<td>P261 - Avoid breathing vapor.</td>
<td></td>
</tr>
<tr>
<td>P264 - Wash thoroughly after handling.</td>
<td></td>
</tr>
<tr>
<td>P273 - Avoid release to the environment.</td>
<td></td>
</tr>
</tbody>
</table>

**Response**

<table>
<thead>
<tr>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P391 - Collect spillage.</td>
<td></td>
</tr>
<tr>
<td>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</td>
<td></td>
</tr>
<tr>
<td>P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.</td>
<td></td>
</tr>
<tr>
<td>P362 + P364 - Take off contaminated clothing and wash it before reuse.</td>
<td></td>
</tr>
<tr>
<td>P302 + P352 - IF ON SKIN: Wash with plenty of water.</td>
<td></td>
</tr>
<tr>
<td>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
<td></td>
</tr>
<tr>
<td>P337 + P313 - If eye irritation persists: Get medical advice or attention.</td>
<td></td>
</tr>
</tbody>
</table>

**Storage**

<table>
<thead>
<tr>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</td>
<td></td>
</tr>
</tbody>
</table>

**Disposal**

<table>
<thead>
<tr>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</td>
<td></td>
</tr>
</tbody>
</table>

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Section 2. Hazard identification

**Supplemental label elements**
- Santovac 5P Ultra Polyphenyl Ether Lubricant
- OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

**Other hazards which do not result in classification**
- Santovac 5P Ultra Polyphenyl Ether Lubricant
- OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Synonyms</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santovac 5P Ultra Polyphenyl Ether Lubricant</td>
<td>1,3-bis(3-phenoxyphenoxy)benzene</td>
<td>100</td>
<td>2455-71-2</td>
</tr>
<tr>
<td>OFN EI Checkout Standard 1 pg/μL</td>
<td>2,2,4-trimethylpentane</td>
<td>≥80</td>
<td>540-84-1</td>
</tr>
<tr>
<td>AVF 45 Platinum</td>
<td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td>
<td>≥80</td>
<td>68037-01-4</td>
</tr>
<tr>
<td>1-Dodecene, homopolymer, hydrogenated</td>
<td>1-Dodecene, homopolymer, hydrogenated</td>
<td>≥10 - ≤30</td>
<td>151006-63-2</td>
</tr>
</tbody>
</table>

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First-aid measures

**Description of necessary first aid measures**

**Eye contact**: Santovac 5P Ultra Polyphenyl Ether Lubricant
- 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.
- OFN EI Checkout Standard 1 pg/μL
- 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.
## Section 4. First-aid measures

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Santovac 5P Ultra Polyphenyl Ether Lubricant</td>
<td><strong>AVF 45 Platinum</strong></td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>OFN EI Checkout Standard 1 pg/μL</td>
<td></td>
<td>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. 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.</td>
</tr>
<tr>
<td><strong>AVF 45 Platinum</strong></td>
<td></td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
</tbody>
</table>

| **Skin contact** |   |   |
| Santovac 5P Ultra Polyphenyl Ether Lubricant |  **AVF 45 Platinum** | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| OFN EI Checkout Standard 1 pg/μL |   | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| **AVF 45 Platinum** |   | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |

| **Ingestion** |   |   |
| Santovac 5P Ultra Polyphenyl Ether Lubricant |  **OFN EI Checkout Standard 1 pg/μL** | Wash out mouth with water. 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. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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. |
| **AVF 45 Platinum** |   | Wash out mouth with water. 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. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by \volve 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. |
Section 4. First-aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>No known significant effects or critical hazards.</td>
<td>Causes serious eye irritation.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No known significant effects or critical hazards.</td>
<td>Causes skin irritation.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No known significant effects or critical hazards.</td>
<td>Causes serious eye irritation.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Effect</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>No specific data.</td>
<td>Adverse symptoms may include the following:</td>
<td></td>
</tr>
<tr>
<td>Skin contact</td>
<td>No specific data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye contact</td>
<td>No specific data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>No specific data.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Section 4. First-aid measures

### Ingestion
- **Santovac 5P Ultra**
  - Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard
    - 1 pg/μL
- **AVF 45 Platinum**
  Adverse symptoms may include the following:
  - Nausea or vomiting

### Protection of first-aiders
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - No action shall be taken involving any personal risk or without suitable training.
- OFN EI Checkout Standard
  - 1 pg/μL
  - No action shall be taken involving any personal risk or without suitable training.
- AVF 45 Platinum
  - If it is suspected that fumes are present in the fire, it is dangerous to the person providing aid to give mouth-to-mouth resuscitation.
  - 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.

### Notes to physician
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - Treat symptomatically.
  - Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- OFN EI Checkout Standard
  - 1 pg/μL
  - Treat symptomatically.
  - Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- AVF 45 Platinum
  - 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
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - No specific treatment.
- OFN EI Checkout Standard
  - 1 pg/μL
  - No specific treatment.
- AVF 45 Platinum
  - No specific treatment.

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

### See toxicological information (Section 11)

Section 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard
    - 1 pg/μL
  - AVF 45 Platinum
  - Use an extinguishing agent suitable for the surrounding fire.
  - Use dry chemical, CO₂, water spray (fog) or foam.

#### Unsuitable extinguishing media
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard
    - 1 pg/μL
  - AVF 45 Platinum
  - Use an extinguishing agent suitable for the surrounding fire.
  - Do not use water jet.
  - None known.

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### Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL</th>
</tr>
</thead>
<tbody>
<tr>
<td>In a fire or if heated, a pressure increase will occur and the container may burst. Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides</td>
</tr>
<tr>
<td>AVF 45 Platinum</td>
<td>AVF 45 Platinum</td>
<td>AVF 45 Platinum</td>
<td></td>
</tr>
<tr>
<td>In a fire or if heated, a pressure increase will occur and the container may burst. This material may cause long lasting harmful effects to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous thermal decomposition products</td>
<td>Santovac 5P Ultra Polyphenyl Ether Lubricant</td>
<td>OFN EI Checkout Standard 1 pg/μL</td>
<td>AVF 45 Platinum</td>
</tr>
<tr>
<td>Special protective actions for fire-fighters</td>
<td>Santovac 5P Ultra Polyphenyl Ether Lubricant</td>
<td>OFN EI Checkout Standard 1 pg/μL</td>
<td>AVF 45 Platinum</td>
</tr>
<tr>
<td>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.</td>
<td>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.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>Santovac 5P Ultra Polyphenyl Ether Lubricant</td>
<td>OFN EI Checkout Standard 1 pg/μL</td>
<td>AVF 45 Platinum</td>
</tr>
<tr>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 5. Fire-fighting measures

AVF 45 Platinum

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

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

**For non-emergency personnel**

- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - 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.

- OFN EI Checkout Standard 1 pg/μL
  - 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**

- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - 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".

- OFN EI Checkout Standard 1 pg/μL
  - 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".

**Environmental precautions**

- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - 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).

- OFN EI Checkout Standard 1 pg/μL
  - 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

- AVF 45 Platinum
  - 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,
Section 6. Accidental release measures

Methods and materials for containment and cleaning up

Methods for cleaning up: Santovac 5P Ultra Polyphenyl Ether Lubricant
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

OFN EI Checkout Standard 1 pg/μL
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.

AVF 45 Platinum
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Santovac 5P Ultra Polyphenyl Ether Lubricant
Put on appropriate personal protective equipment (see Section 8).

OFN EI Checkout Standard 1 pg/μL
Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. 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.

AVF 45 Platinum
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
### Section 7. Handling and storage

<table>
<thead>
<tr>
<th>Advice on general occupational hygiene</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFN EI Checkout Standard 1 pg/μL</td>
<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>AVF 45 Platinum</td>
<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>Conditions for safe storage, including any incompatibilities</th>
<th>Santovac 5P Ultra Polyphenyl Ether Lubricant</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFN EI Checkout Standard 1 pg/μL</td>
<td></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. Store locked up. 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>AVF 45 Platinum</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
</table>

### Biological exposure indices

None known.

### 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.

#### 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

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.
Section 8. Exposure controls/personal protection

**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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance**

**Physical state**

- Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

**Color**

- Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

**Odor**

- Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

**Odor threshold**

- Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

**pH**

- Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

**Melting point/freezing point**

- Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

**Boiling point, initial boiling point, and boiling range**

- Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- AVF 45 Platinum

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.
Section 9. Physical and chemical properties and safety characteristics

Flash point
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard 1 pg/µL
  - AVF 45 Platinum
- OFN EI Checkout Standard 1 pg/µL
- AVF 45 Platinum

Evaporation rate
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard 1 pg/µL
  - AVF 45 Platinum

Flammability
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard 1 pg/µL
  - AVF 45 Platinum

Lower and upper explosion limit/flammability limit
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard 1 pg/µL
  - AVF 45 Platinum

Vapor pressure
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard 1 pg/µL
  - AVF 45 Platinum

Relative vapor density
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard 1 pg/µL
  - AVF 45 Platinum

Relative density
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard 1 pg/µL
  - AVF 45 Platinum

Solubility(ies)

<table>
<thead>
<tr>
<th>Media</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santovac 5P Ultra Polyphenyl Ether Lubricant acetone</td>
<td>Soluble Not soluble</td>
</tr>
<tr>
<td>water</td>
<td></td>
</tr>
<tr>
<td>OFN EI Checkout Standard 1 pg/µL water</td>
<td>Not soluble</td>
</tr>
<tr>
<td>AVF 45 Platinum water</td>
<td>Not soluble</td>
</tr>
</tbody>
</table>

Partition coefficient: n-octanol/water
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN EI Checkout Standard 1 pg/µL
  - AVF 45 Platinum

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Section 9. Physical and chemical properties and safety characteristics

Auto-ignition temperature: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL AVF 45 Platinum
- Santovac 5P Ultra Polyphenyl Ether Lubricant: 612.8°C (1135°F)
- OFN EI Checkout Standard 1 pg/μL: 415 to 418°C (779 to 784.4°F)
- AVF 45 Platinum: Not available.

Decomposition temperature: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL AVF 45 Platinum
- Santovac 5P Ultra Polyphenyl Ether Lubricant: >425°C (>797°F)
- OFN EI Checkout Standard 1 pg/μL: Not available.
- AVF 45 Platinum: Not available.

Viscosity: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL AVF 45 Platinum
- Santovac 5P Ultra Polyphenyl Ether Lubricant: Not available.
- OFN EI Checkout Standard 1 pg/μL: Not available.
- AVF 45 Platinum: Kinematic (40°C (104°F)): 41.4 to 50.6 mm²/s (41.4 to 50.6 cSt)

Particle characteristics
- Median particle size: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL AVF 45 Platinum
  - Santovac 5P Ultra Polyphenyl Ether Lubricant: Not applicable.
  - OFN EI Checkout Standard 1 pg/μL: Not applicable.
  - AVF 45 Platinum: Not applicable.

Section 10. Stability and reactivity

Reactivity: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL AVF 45 Platinum
- Santovac 5P Ultra Polyphenyl Ether Lubricant: No specific test data related to reactivity available for this product or its ingredients.
- OFN EI Checkout Standard 1 pg/μL: No specific test data related to reactivity available for this product or its ingredients.
- AVF 45 Platinum: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL AVF 45 Platinum
- Santovac 5P Ultra Polyphenyl Ether Lubricant: The product is stable.
- OFN EI Checkout Standard 1 pg/μL: The product is stable.
- AVF 45 Platinum: The product is stable.

Possibility of hazardous reactions: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL AVF 45 Platinum
- Santovac 5P Ultra Polyphenyl Ether Lubricant: Under normal conditions of storage and use, hazardous reactions will not occur.
- OFN EI Checkout Standard 1 pg/μL: Under normal conditions of storage and use, hazardous reactions will not occur.
- AVF 45 Platinum: Under normal conditions of storage and use, hazardous reactions will not occur.
Section 10. Stability and reactivity

Conditions to avoid: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- No specific data.

AVF 45 Platinum
- No specific data.

Incompatible materials: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- May react or be incompatible with oxidizing materials.

AVF 45 Platinum
- Reactive or incompatible with the following materials:
  - oxidizing materials

Hazardous decomposition products: Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL
- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

AVF 45 Platinum
- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

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>
<tbody>
<tr>
<td>OFN EI Checkout Standard 1 pg/μL 2,2,4-trimethylpentane</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat - Male, Female</td>
<td>&gt;33.52 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td>AVF 45 Platinum Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td>
<td>LD50 Oral</td>
<td>Rat - Male, Female</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat - Male, Female</td>
<td>&gt;5.2 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion
- Not available.

Sensitization
- Not available.

Mutagenicity
- Conclusion/Summary: Not available.

Carcinogenicity
- Conclusion/Summary: Not available.

Reproductive toxicity
- Conclusion/Summary: Not available.
Section 11. Toxicological information

**Teratogenicity**

**Conclusion/Summary**: Not available.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
</table>
| OFN EI Checkout Standard 1 pg/μL  
2,2,4-trimethylpentane | Category 3  
Category 3 | - | Respiratory tract irritation  
Narcotic effects |

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

Not available.

**Aspiration hazard**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
</table>
| OFN EI Checkout Standard 1 pg/μL  
2,2,4-trimethylpentane | ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1 |
| AVF 45 Platinum  
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure**

<table>
<thead>
<tr>
<th>Name</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.</th>
</tr>
</thead>
</table>

**Potential acute health effects**

**Eye contact**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
</table>
| Santovac 5P Ultra Polyphenyl Ether Lubricant  
OFN EI Checkout Standard 1 pg/μL  
AVF 45 Platinum | No known significant effects or critical hazards.  
Causes serious eye irritation. |

**Inhalation**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
</table>
| Santovac 5P Ultra Polyphenyl Ether Lubricant  
OFN EI Checkout Standard 1 pg/μL  
AVF 45 Platinum | No known significant effects or critical hazards.  
Can cause central nervous system (CNS) depression.  
May cause drowsiness or dizziness.  
May cause respiratory irritation.  
No known significant effects or critical hazards. |

**Skin contact**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
</table>
| Santovac 5P Ultra Polyphenyl Ether Lubricant  
OFN EI Checkout Standard 1 pg/μL  
AVF 45 Platinum | No known significant effects or critical hazards.  
Causes skin irritation. |

**Ingestion**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
</table>
| Santovac 5P Ultra Polyphenyl Ether Lubricant  
OFN EI Checkout Standard 1 pg/μL  
AVF 45 Platinum | No known significant effects or critical hazards.  
Can cause central nervous system (CNS) depression.  
May be fatal if swallowed and enters airways.  
No known significant effects or critical hazards. |

**Symptoms related to the physical, chemical and toxicological characteristics**
## Section 11. Toxicological information

### Eye contact
- **Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL**
  - No specific data.
  - Adverse symptoms may include the following:
    - pain or irritation
    - watering
    - redness

- **AVF 45 Platinum**
  - No specific data.

### Inhalation
- **Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL**
  - No specific data.
  - Adverse symptoms may include the following:
    - respiratory tract irritation
    - coughing
    - nausea or vomiting
    - headache
    - drowsiness/fatigue
    - dizziness/vertigo
    - unconsciousness

- **AVF 45 Platinum**
  - No specific data.

### Skin contact
- **Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL**
  - No specific data.
  - Adverse symptoms may include the following:
    - irritation
    - redness

- **AVF 45 Platinum**
  - No specific data.

### Ingestion
- **Santovac 5P Ultra Polyphenyl Ether Lubricant OFN EI Checkout Standard 1 pg/μL**
  - No specific data.
  - Adverse symptoms may include the following:
    - nausea or vomiting

- **AVF 45 Platinum**
  - No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure
- **Potential immediate effects**
  - Not available.

- **Potential delayed effects**
  - Not available.

#### Long term exposure
- **Potential immediate effects**
  - Not available.

- **Potential delayed effects**
  - Not available.

### Potential chronic health effects
- **General**
  - No known significant effects or critical hazards.

- **Carcinogenicity**
  - No known significant effects or critical hazards.
Section 11. Toxicological information

**Mutagenicity**
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN Ei Checkout Standard 1 pg/μL
  - AVF 45 Platinum
- No known significant effects or critical hazards.

**Reproductive toxicity**
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN Ei Checkout Standard 1 pg/μL
  - AVF 45 Platinum
- No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**
- N/A

**Other information**
- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN Ei Checkout Standard 1 pg/μL
  - AVF 45 Platinum
- Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
- Not available.

- Santovac 5P Ultra Polyphenyl Ether Lubricant
  - OFN Ei Checkout Standard 1 pg/μL
  - AVF 45 Platinum
- Adverse symptoms sometimes include the following: Repeated exposure may cause skin dryness or cracking.

Section 12. Ecological information

**Toxicity**
- Not available.

**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>OFN Ei Checkout Standard 1 pg/μL 2,2,4-trimethylpentane</td>
<td>-</td>
<td>-</td>
<td>Inherent</td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFN Ei Checkout Standard 1 pg/μL 2,2,4-trimethylpentane</td>
<td>4.5</td>
<td>231</td>
<td>high</td>
</tr>
<tr>
<td>AVF 45 Platinum Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated 1-Dodecene, homopolymer, hydrogenated</td>
<td>&gt;6.5</td>
<td>-</td>
<td>high</td>
</tr>
<tr>
<td>AVF 45 Platinum Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated 1-Dodecene, homopolymer, hydrogenated</td>
<td>&gt;6.5</td>
<td>-</td>
<td>high</td>
</tr>
</tbody>
</table>

**Mobility in soil**

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Section 12. Ecological information

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

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

Section 13. Disposal considerations

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.

Section 14. Transport information

TDG / IMDG / IATA Additional information

Remarks: De minimis quantities

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 IMO instruments : Not available.

Section 15. Regulatory information

Canadian lists

- Canadian NPRI : The following components are listed: octane (all isomers)
- CEPA Toxic substances : None of the components are listed.

International regulations

- UNECE Aarhus Protocol on POPs and Heavy Metals : Not listed.
Section 15. Regulatory information

Inventory list

Australia: Not determined.
Canada: Not determined.
China: Not determined.
Eurasian Economic Union: Russian Federation inventory: Not determined.
Japan: Japan inventory (CSCL): Not determined.
            Japan inventory (ISHL): Not determined.
New Zealand: Not determined.
Philippines: Not determined.
Republic of Korea: Not determined.
Taiwan: Not determined.
Thailand: Not determined.
Turkey: Not determined.
United States: Not determined.
Viet Nam: Not determined.

Section 16. Other information

History
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Key to abbreviations:
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HPR = Hazardous Products Regulations
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
N/A = Not available
UN = United Nations

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFN EI Checkout Standard 1 pg/μL</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>FLAMMABLE LIQUIDS - Category 2</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SKIN IRRITATION - Category 2</td>
<td>Calculation method</td>
</tr>
<tr>
<td>EYE IRRITATION - Category 2A</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</td>
<td>Calculation method</td>
</tr>
<tr>
<td>ASPIRATION HAZARD - Category 1</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>AQUATIC HAZARD (ACUTE) - Category 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>AQUATIC HAZARD (LONG-TERM) - Category 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>AVF 45 Platinum</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision: 10/26/2022  Date of previous issue: 09/03/2019  Version: 8
Section 16. Other information

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.