## Test Report

No. CANEC2216452901  
Date: 04 Aug 2022  
Page 1 of 6

### Client Name:
FUZHOU TOPDA NEW MATERIAL CO., LTD

### Client Address:
17-16, C3# BUILDING, CANGSHAN WANDA PLAZA, 216 PUSHANG AVENUE, FUZHOU, FUJIAN, CHINA

### Sample Name:
PFPE OIL

### Manufacturer:
FUZHOU TOPDA NEW MATERIAL CO., LTD

The above sample(s) and information were provided by the client.

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### SGS Job No.:
CP22-042578 - GZ

### Internal Reference No.:
MNS221048GZ

### Date of Sample Received:
01 Aug 2022

### Testing Period:
01 Aug 2022 - 04 Aug 2022

### Test Requested:
Selected test(s) as requested by the client.

### Test Method(s):
Please refer to next page(s).

### Test Result(s):
Please refer to next page(s).

### Result Summary:

<table>
<thead>
<tr>
<th>Test Requested</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU-Lee, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)</td>
<td>PASS</td>
</tr>
</tbody>
</table>

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie  
Approved Signatory

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Test Result(s):

Test Part Description:

Specimen No.  SGS Sample ID  Description
SN1  CAN22-164529.001  Colorless transparent liquid

Remarks:
(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Dibisobutyl phthalate (DIBP).


<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>Limit</th>
<th>Unit</th>
<th>MDL</th>
<th>001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>100</td>
<td>mg/kg</td>
<td>2</td>
<td>ND</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>1000</td>
<td>mg/kg</td>
<td>2</td>
<td>ND</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>1000</td>
<td>mg/kg</td>
<td>2</td>
<td>ND</td>
</tr>
<tr>
<td>Hexavalent Chromium (CrVI)</td>
<td>1000</td>
<td>mg/kg</td>
<td>8</td>
<td>ND</td>
</tr>
<tr>
<td>Sum of PBBS</td>
<td>1000</td>
<td>mg/kg</td>
<td>-</td>
<td>ND</td>
</tr>
<tr>
<td>Monobromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Dibromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tribromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tetrabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Pentabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Hexabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Heptabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Octabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Nonabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Decabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Sum of PBDEs</td>
<td>1000</td>
<td>mg/kg</td>
<td>-</td>
<td>ND</td>
</tr>
<tr>
<td>Monobromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Dibromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tribromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tetrabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
</tbody>
</table>
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<thead>
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<th>Limit</th>
<th>Unit</th>
<th>MDL</th>
<th>001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Hexabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Heptabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Octabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Nonabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Decabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Dibutyl phthalate (DBP)</td>
<td>1000</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>Butyl benzyl phthalate (BBP)</td>
<td>1000</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>Bis (2-ethylhexyl) phthalate (DEHP)</td>
<td>1000</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>Diisobutyl Phthalates (DIBP)</td>
<td>1000</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
</tbody>
</table>

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series
(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (\( w = 0 \)) stated in ILAC-G8:09/2019.
ATTACHMENTS

**Pb/Cd/Hg/Cr^6+/PBBs/PBDEs Testing Flow Chart**

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^6+ and PBBs/PBDEs test method excluded).

- **Sample Preparation**
  - **Sample Measurement**
  - **Pb/Cd/Hg**
    - Acid digestion with microwave / hotplate
    - Filtration
    - Solution
    - 1) Alkali Fusion / Dry Ashing
    - 2) Acid to dissolve
    - Residue
    - ICP-OES/AAS
  - **PBBs/PBDEs**
    - Sample solvent extraction
    - Concentration/ Dilution of extraction solution
    - Filtration
    - GC-MS
    - DATA
    - pH adjustment
    - Adding 1,5-diphenylcarbazide for color development
    - UV-Vis
    - DATA
  - **Cr^6+**
    - Metallic material
    - Boiling water extraction
    - Adding 1,5-diphenylcarbazide for color development
    - UV-Vis
    - DATA

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ATTACHMENTS

Phthalates Testing Flow Chart

1. Sample cutting / preparation
2. Sample Measurement
3. Solvent extraction
4. Concentration/Dilution
5. Filtration
6. GC-MS

DATA
Sample photo:

SGS authenticate the photo on original report only

*** End of Report ***