Test Report

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CRS Ref. CRSPG/18/0364/Inoac

INOAC CORPORATION
3-1-36, IMAIKE-CHO, ANJO, AICHI, JAPAN 446-8504.

The following merchandise was (were) submitted and identified by the client as:

Product Category: Rubber Sponge
Type: GOMSPOR
Item: E-4382
Colour: Black
Sample Receiving Date: 27/12/2018
Testing Period: 27/12/2018 to 25/01/2019

Test Requested: Selected test(s) as requested by client
Test Method: Please refer to next page(s).
Test Results: Please refer to next page(s).
Analysts: Eng Qian Yi

SGS (MALAYSIA) SDN. BHD.

LEE HUI MIN
B.Sc.(HONS) MMIC
SENIOR CHEMIST

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# Test Report

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## Test results:

**Test Part Description:**

**Sample Description:** As per page 1 & 4

### RoHS Directive 2011/65/EU Annex II

<table>
<thead>
<tr>
<th>Test Item(s):</th>
<th>Unit</th>
<th>Test Method</th>
<th>Results</th>
<th>MDL</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)</td>
<td>N.D.</td>
<td>2</td>
<td>100</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)</td>
<td>N.D.</td>
<td>2</td>
<td>1000</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-4:2013/AMD1:2017 (Determination of Hg by ICP-OES)</td>
<td>N.D.</td>
<td>2</td>
<td>1000</td>
</tr>
<tr>
<td>Hexavalent Chromium (CrVI)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-7:2:2017 (Determination of CrVI by UV-Vis)</td>
<td>N.D.</td>
<td>8</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Sum of PBBs</strong></td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td></td>
<td>1000</td>
</tr>
<tr>
<td>Monobromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Dibromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tribromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tetrabromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Pentabromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Hexabromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Heptabromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Octabromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Nonabromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Decabromobiphenyl</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Sum of PBDEs</th>
<th>mg/kg</th>
<th>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</th>
<th>N.D.</th>
<th>-</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monobromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Dibromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tribromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tetrabromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Pentabromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Hexabromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Heptabromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Octabromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Nonabromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Decabromodiphenyl ether</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)</td>
<td>N.D.</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

**Note:**

(a) mg/kg = ppm; (0.1wt% = 1000ppm)  
(b) N.D. = Not Detected  
(c) MDL = Method Detection Limit  
(d) - = Not regulated

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Test Part Description:

Product Category : Rubber Sponge
Type : GOMSPOR
Item : E-4382
Colour : Black

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1. **DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5 2013**
   - Sample Receiving and Registration
   - Cut sample in small pieces
   - Weight sample (0.2-0.5g) into digestion vessel
   - Acid digestion (Microwave)
   - “Totally Dissolved”
   - Filtration
   - Analyses by ICP

2. **DETERMINATION OF LEAD CONTENT BY IEC 62321-5 2013**
   - Sample Receiving and Registration
   - Cut sample in small pieces
   - Weight sample (0.2-0.5g) into digestion vessel
   - Acid digestion (Microwave)
   - “Totally Dissolved”
   - Filtration
   - Analyses by ICP

3. **DETERMINATION OF MERCURY CONTENT BY IEC 62321-4 2013/AMD1 2017**
   - Sample Receiving and Registration
   - Cut sample in small pieces
   - Weight sample (0.1-0.5g) into digestion vessel
   - Acid digestion (Microwave)
   - “Totally Dissolved”
   - Filtration
   - Analyses by ICP

4a. **DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2 (Other Materials)**
   - Sample Preparation
   - Digestion at 150~160°C
   - Separating To Obtain Aqueous Phase
   - pH Adjustment
   - Add Diphenyl-Carbazide for Color Development
   - Analyses by UV- Spectrophotometer (540 nm)

4b. **DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2 (Soluble Polymers)**
   - Sample Preparation
   - Add Digestion Solution
   - Ultrasonicate Sample
   - pH Adjustment
   - Add Diphenyl-Carbazide for Color Development
   - Analyses by UV- Spectrophotometer (540 nm)

5. **DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6 2015**
   - Sample Preparation
   - Weight sample (0.5-4.0g) into extraction thimble
   - Soxhlet Extraction with Toluene
   - Filter through 0.45 um membrane filter
   - Analyses by GC-MS (with appropriate dilution)

**** End of Report ****