



# Test Report No. F690101/LF-CTSAYAA21-16663

Issued Date : 2021. 03. 25

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## DEERS I CO., LTD.

76 Cheongbuksandan-ro, Cheongbuk-eup  
Pyeongtaek-si, Gyeonggi-do  
Korea



The following sample(s) was/were submitted and identified by/on behalf of the client as:-

**SGS File No.** : AYAA21-16663  
**Product Name** : PLUS KLEENTEC\_RAPIDY\_PLUS  
PACK\_BARO\_VIDAN\_ULTRA\_ULTRA(SOY)\_LUXURY\_COS\_COH\_SHG\_SOLFREE\_PRIDE-5  
0\_WINNER\_POWER\_K1\_K3\_K5\_K7\_VK\_NATURE PROCESS COLOR\_HI GLOSS OP  
VARNISH\_MATT OP VARNISH  
**Item No./Part No.** : N/A  
**Client Reference Data** : MAGENTA\_YELLOW\_CYAN\_BLACK  
**Received Date** : 2021. 03. 22  
**Test Period** : 2021. 03. 22 to 2021. 03. 25  
**Report Comments** : By the applicant's request, item No.s/part No.s & client reference information are stated/added on report.  
**Test Results** : For further details, please refer to following page(s)

SGS Korea Co., Ltd.

Tommy Oh / Chemical Lab Mgr

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Sample No. : AYAA21-16663.001

Sample Description : PLUS KLEENTEC\_RAPIDY\_PLUS  
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0\_WINNER\_POWER\_K1\_K3\_K5\_K7\_VK\_NATURE PROCESS COLOR\_HI GLOSS OP  
VARNISH\_MATT OP VARNISH

Item No./Part No. : N/A

Materials : N/A

## Heavy Metals

| Test Items                   | Unit  | Test Method   | MDL | Results |
|------------------------------|-------|---|-----|---------|
| Cadmium (Cd)                 | mg/kg | With reference to IEC 62321-5 : 2013, by ICP-OES  | 0.5 | N.D.    |
| Lead (Pb)                    | mg/kg | With reference to IEC 62321-5 : 2013, by ICP-OES  | 5   | N.D.    |
| Mercury (Hg)                 | mg/kg | With reference to IEC 62321-4 : 2013+A1 : 2017, by ICP-OES  | 2   | N.D.    |
| Hexavalent Chromium (Cr VI)* | mg/kg | With reference to IEC 62321-7-2 : 2017, by UV-Vis and/or with reference to IEC 62321-5 : 2013, by ICP-OES | 8   | N.D.    |

## Flame Retardants--PBBs/PBDEs

| Test Items               | Unit  | Test Method                                    | MDL | Results |
|--------------------------|-------|--|-----|---------|
| Monobromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Dibromobiphenyl          | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tribromobiphenyl         | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tetrabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Pentabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Hexabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Heptabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Octabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Nonabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Decabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Monobromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Dibromodiphenyl ether    | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tribromodiphenyl ether   | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Hexabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Octabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Nonabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |

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0\_WINNER\_POWER\_K1\_K3\_K5\_K7\_VK\_NATURE PROCESS COLOR\_HI GLOSS OP  
VARNISH\_MATT OP VARNISH  
**Item No./Part No.** : N/A  
**Materials** : N/A

## Flame Retardants-PBBs/PBDEs

| Test Items              | Unit  | Test Method                                    | MDL | Results |
|-------------------------|-------|--|-----|---------|
| Decabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |

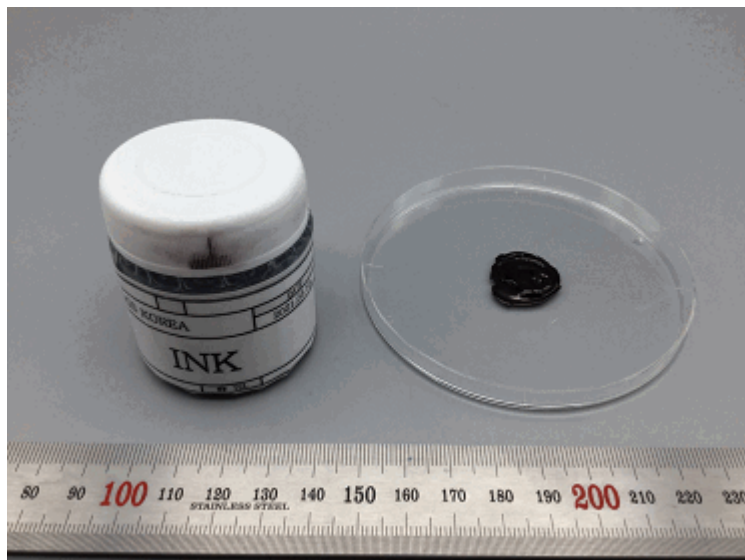
## Phthalates

| Test Items                         | Unit  | Test Method                                    | MDL | Results |
|------------------------------------|-------|--|-----|---------|
| Di-(2-ethylhexyl) phthalate (DEHP) | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Di-butyl phthalate (DBP)           | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Benzyl butyl phthalate (BBP)       | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Di-isobutyl phthalate (DIBP)       | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |

- NOTE: (1) N.D. = Not detected.(<MDL)  
(2) mg/kg = ppm, µg/kg = ppb, mg/L=ppm  
(3) MDL = Method Detection Limit  
(4) - = No regulation  
(5) Negative = Undetectable / Positive = Detectable  
(6) \*\* = Qualitative analysis (No Unit)  
(7) \* = a. The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND",  
and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.  
b. If the Chromium (Cr) content is greater than the MDL of Hexavalent Chromium (Cr(VI)),  
confirmation test of Hexavalent Chromium (Cr(VI)) is required.  
(8) The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
This test report is not related to Korea Laboratory Accreditation Scheme.

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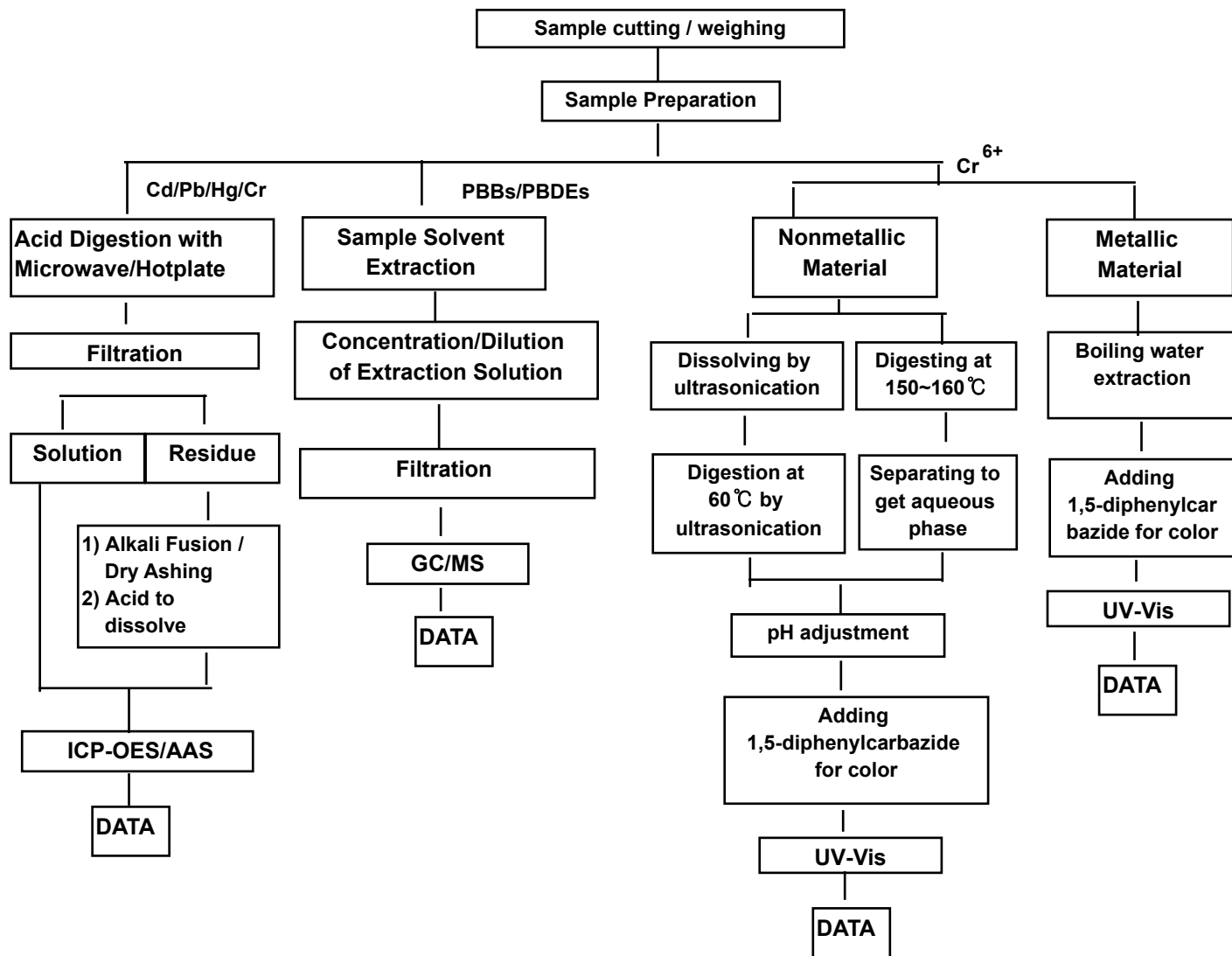
Picture of Sample as Received:



**AYAA21-16663.001**

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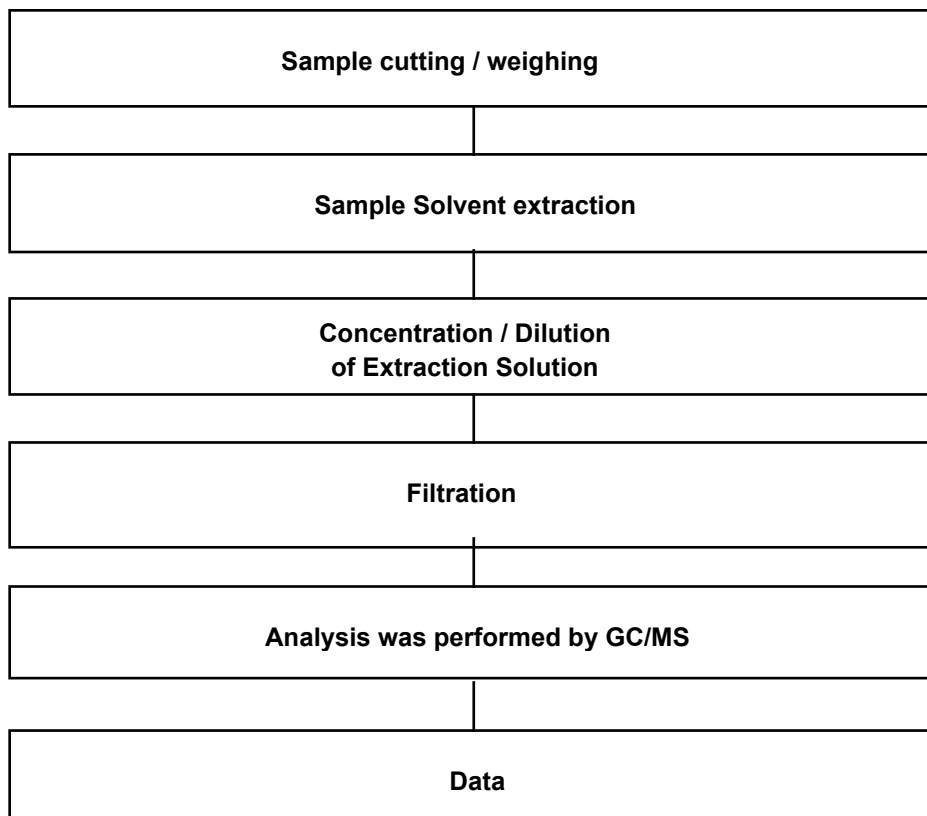
### Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr<sup>6+</sup> /PBBs&PBDEs Testing



The samples were dissolved totally at the acid digestion step of the above flow chart for Cd,Pb,Hg  
 Section Chief : Timothy Jeon



### Flow Chart for Phthalate Test



\*\*\* End of Report \*\*\*

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